


1946

## Mechanical Engineering, Architecture and Building, Printing and Book Production : Prospectus Session 1946-47

City of Dublin Vocational Educational Committee

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City of Dublin  
Vocational Education Committee

SCOILEANNA CEÁRD-OIDEACÁIS  
City of Dublin Technical Schools  
TECHNICAL INSTITUTE  
BOLTON STREET

seisiún  
1946-47



Session  
1946-47

PROSPECTUS

Department of Mechanical Engineering  
Department of Architecture and Building  
Department of Printing and Book  
Production

# CALENDAR—SESSION 1946-47

1946—SEPT. 2 MONDAY

Whole-time Day Schools open for enrolment, and Day Apprentice Schools resume work.

„ 9 MONDAY

Part-time Day Classes open for enrolment, and Whole-time Day Schools commence work.

„ 16 MONDAY

Evening Courses open for enrolment, and Part-time Day Classes commence work.

„ 23 MONDAY

Evening Classes commence work.

NOV. 1 FRIDAY

*All Saints' Day.* Whole-time Day Schools, excepting Day Apprentice Schools and Special Classes, closed.

DEC. 8 SUNDAY

*Feast of the Immaculate Conception.*

„ 20 FRIDAY

Close of Christmas Term.

1947—JAN. 6 MONDAY

*Feast of the Epiphany.*

„ 7 TUESDAY

All Classes resume work after Christmas Vacation.

MAR. 17 MONDAY

*St. Patrick's Day.* Schools closed.

APR. 1 TUESDAY

Close of Easter Term.

„ 4 FRIDAY

*Good Friday.*

„ 6 SUNDAY

*Easter Sunday.*

„ 9 WEDNESDAY

Evening Classes resume work after Easter Vacation.

„ 14 MONDAY

All Day Classes resume work after Easter Vacation.

MAY 2 FRIDAY

Evening Classes close, excepting where otherwise arranged.

„ 15 THURSDAY

*Ascension Day.* Whole-time Day Schools, excepting Day Apprenticeship Schools and Special Classes, closed.

„ 26 MONDAY

*Whit Monday.* Schools closed.

JUNE 5 THURSDAY

*Feast of Corpus Christi.* Whole-time Day Schools, excepting Day Apprenticeship Schools and Special Classes, closed.

„ 14 SATURDAY

Irish Proficiency Entrance Scholarship Examinations.

„ 27 FRIDAY

Summer Term closes, except where otherwise arranged.

„ 29 SUNDAY

*Feast of Saints Peter and Paul.*

Schools closed on all Bank Holidays not specified in above Calendar.



# **CITY OF DUBLIN VOCATIONAL EDUCATION COMMITTEE**

*Chief Executive Officer :*

MARTIN GLEESON, M.A., B.COMM., H.DIP.ED.

---

## **Technical Institute, Bolton Street**

*Principal :* MARTIN KEADY, B.E., B.SC., A.R.C.SC.I.

*Vice-Principal :* DONAL O'DWYER, B.ARCH., M.R.I.A.I.

### **DEPARTMENT OF MECHANICAL ENGINEERING**

*Head of Department :* THE PRINCIPAL.

*Assistant Head of Department :* —————

*Head of Motor Car Engineering Division :*

W. D. PILE, A.M.I.M.E., M.I.A.E.

*Chief Instructor (Mechanical Engineering Trades) :* H. FITZGERALD.

### **DEPARTMENT OF ARCHITECTURE AND BUILDING**

*Head of Department :* THE VICE-PRINCIPAL.

*Assistant Head of Department (Architecture & Building Technology) :*

B. O'REILLY, B.ARCH., A.R.I.B.A.

*Assistant Head of Department (Building Trades) :* A. HANWAY.

### **DEPARTMENT OF PRINTING & BOOK PRODUCTION**

*Teacher-in-Charge :* W. J. FITZPATRICK.

### **SCIENCE DIVISION**

*Head of Division :* W. D. HORGAN, B.A.

### **DAY JUNIOR TECHNICAL SCHOOL**

*Teacher-in-Charge :* L. MAC AMHLAOIBH, B.A.

*Stock-taker :* W. J. N. O'BRIEN, DIP.ING.

*Clerk :* TOMAS Ó SOMACHÁIN.

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## CITY OF DUBLIN VOCATIONAL EDUCATION COMMITTEE

- Alderman Martin O'Sullivan, T.D., P.C., 74 Ballymun Road, Glasnevin, Dublin. (Chairman).  
 Rev. John Fitzpatrick, M.A., D.D., 1 Frankfort Avenue, Rathgar, Dublin. (Vice-Chairman).  
 Rt. Hon. Alderman John McCann, T.D., Lord Mayor, Mansion House, Dublin.  
 Councillor Cormac Breathnach, T.D., LL.D., 384 Clontarf Rd., Dublin.  
 Councillor John Breen, 1 Arran Quay Terrace, Dublin.  
 Alderman Bernard Butler, B.A., T.D., 16 Healthfield Road, Terenure, Dublin.  
 Councillor Patrick J. Cahill, P.C., 64 Aungier Street, Dublin.  
 Councillor Michael O'Higgins, 11 St. Mary's Road, Ballsbridge, Dublin.  
 Pdraig T. Breathnach, PH.D., M.A., F.C.P., 66 Iona Road, Glasnevin, Dublin.  
 Mrs. Mary Mulvey, P.C., Readsvalle, Main Street, Dundrum, Co. Dublin.  
 Mr. Maurice F. O'Connell, B.A., H.DIP.ED., 17 Oakley Road, Ranelagh, Dublin.  
 Mr. James P. Trainor, 2 Dawson Street, Dublin.  
 Mr. John Swift, 37 Lower Gardiner Street, Dublin.  
 Mr. Hilary Williams, 46 Lambay Road, Drumcondra, Dublin.

*Offices* :—The Technical Institute, Bolton Street, Dublin.

MARTIN M. GLEESON, M.A., B.COMM., H.DIP.ED.,  
*Chief Executive Officer.*

## CITY OF DUBLIN VOCATIONAL EDUCATION SUB-COMMITTEE (Technical Institute, Bolton Street and Branch-School, Capel Street)

- Alderman Martin O'Sullivan, T.D., 74 Ballymun Road, Glasnevin, Dublin.  
 Senator Seán P. Campbell, Dublin Typographical Provident Society.  
 Mr. T. A. Crampton, Master Builders' Association.  
 Mr. Thomas D'Arcy, Irish National Painters' and Decorators' Union.  
 Mr. Gerard Doyle, Dublin Operative Plasterers' Trade Society.  
 Mr. Michael O'Reilly, Irish Engineering Industrial Union.  
 Mr. Robert Murphy, Master Jewellers' Association.  
 Mr. M. P. Rowan, 52 Capel Street, Dublin.  
 Mr. W. J. Whelan, Dublin Typographical Provident Society.  
 Mr. Hilary Williams, Ancient Guild of Incorporated Brick and Stonemasons' Society.  
 Mr. J. G. Wilson, Dublin Master Printers' and Allied Trades' Association.

*Offices* :—The Technical Institute, Bolton Street, Dublin.

MARTIN KEADY, B.E., B.SC., A.R.C.S.C.I.  
*Principal.*

**Telephone: 73553-4.**

## ADVISORY COMMITTEES

### Mechanical Engineering

- J. CASSIDY, General Secretary, Irish Engineering and Foundry Union, 33 Gardiner's Place, Dublin.
- J. O'BRIEN, General Secretary, Irish Engineering Industrial Union, 6 Gardiner's Row, Dublin.
- BRIAN D'A. PATTERSON, Personnel Officer, Coras Iompair Eireann, 59 Upper O'Connell Street, Dublin.
- H. LENNOX, General Manager, Liffey Dockyard Co., East Wall, Dublin.
- S. O'FLAHERTY, Managing Director, Messrs. Howard MacGarvey & Sons, 62 Townsend Street, Dublin.
- GEORGE WATT, Messrs. George Watt, Ltd., Soho Engineering Works, 27 Bridgefoot Street, Dublin.

### Motor Engineering

- A. MCAULEY, B.SC., Rolling Stock Engineer, Coras Iompair Eireann, Broadstone, Dublin.
- CHARLES WARREN, Society of Irish Motor Traders.
- P. P. BRENNAN, Secretary, Irish Automobile Drivers' and Auto-Mechanics' Union, 9 Parnell Square, Dublin.
- J. O'BRIEN, Secretary, Irish Engineering Industrial Union, 6 Gardiner's Row, Dublin.

### Architecture

- J. P. ALCOCK, B.Arch., M.R.I.A.I.,  
A.R.I.B.A.
- W. HOWARD COOKE, P.P.R.I.A.I.,  
A.R.I.B.A.
- A. H. HOPE, B.Arch., M.R.I.A.I.,  
A.R.I.B.A.
- F. B. MEEHAN, M.R.I.A.I.
- H. S. ROBSON, M.Sc., B.Arch.,  
M.R.I.A.I., A.R.I.B.A.
- D. O'TOOLE

Board of Architectural  
Education of the Royal  
Institute of the Architects  
of Ireland.



## Quantity and Building Surveying

C. J. DUNLOP, F.S.I., F.R.I.A.I.  
 J. A. KAVANAGH, F.S.I.  
 E. F. N. TAYLOR, F.S.I.

} Chartered Surveyors'  
 Institution  
 (Eire Branch).

## Building Trades

E. THOMPSON  
 T. CRAMPTON  
 G. WALSH  
 J. DOLAN  
 E. GIBNEY  
 M. CREEDON  
 J. PARSONS  
 G. MALCOLM  
 T. MALONE

} Master Builders'  
 Association.

A. J. GALLAGHER  
 D. GLASGOW, M.I.H.V.E.  
 H. A. O'NEILL

} Association of Master  
 Plumbers, Heating and  
 Ventilating Engineers  
 of Ireland.

C. M. FORDE  
 THOS. F. POWER  
 ARTHUR C. SIETHORPE

} National Association of  
 Master Painters and  
 Decorators of Ireland.

FRANCIS O'CONNOR  
 JOHN NEWELL  
 PATRICK HOLOHAN

} Brick and Stonelayers'  
 Society.

CHRISTOPHER COOKE  
 WILLIAM HOLTON, P.C.  
 EDWARD KANE

} Plumbers', Glaziers' and  
 Domestic Engineers'  
 Union.

LEO CRAWFORD  
 GERALD DOYLE  
 DONAL O'REILLY

} Operative Plasterers'  
 Trade Society.

ROBERT F. MORGAN, National Amalgamated Society of Painters.

JOHN MULHALL, Irish National Painters' Union.

L. HUDSON, United House and Ship Painters' Union.

## Watchmaking

R. MURPHY

G. W. SLEATER

J. WEIR

J. RYAN, Gold, Silver and Allied Trades Union.

} Master Jewellers'  
Association.

## Printing and Book Production

JAMES ROBERTSON

G. E. HETHERINGTON

G. FITZGERALD

J. G. WILSON

} Master Printers'  
Association.

SENATOR SEAN CAMPBELL

N. C. McGRATH

W. J. WHELAN

} Dublin Typographical  
Provident Society.

J. McCANN, Lithographic Printers' Society.

M. COLGAN, Irish Bookbinders' Union.

E. HEALY, Stereotypers' Society.

J. DUNNE, Dublin Newspaper Managers' Committee.

## **General Description of the Activities of the Institute**

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### **DEPARTMENTS**

The work of the Institute comprises both Day and Evening Classes and is carried out under three main sub-divisions or departments :

Mechanical Engineering,  
Architecture and Building and  
Printing and Book Production.

### **DAY SCHOOL ACTIVITIES**

The Day School activities comprise :

- (a) Whole-time Pre-employment Course — Day Junior Technical Course.
- (b) Whole-time Apprentice Scholarship Courses in :  
    Watchmaking; Bricklaying; Plumbing; Plastering;  
    Painting and Decorating.
- (c) Part-time Apprentice Courses in :  
    Fitting and Turning; Carpentry and Joinery; Paint-  
    ing and Decorating; Cabinetmaking; Printing.
- (d) Specialised Higher Technological Courses in :  
    Mechanical Engineering; Architecture; Quantity and  
    Building Surveying.

### **EVENING SCHOOL ACTIVITIES**

The Evening School activities comprise :

#### **1. Department of Mechanical Engineering**

- (a) Technological Courses in :  
    Mechanical Engineering; Motor Car Engineering;  
    Marine Engineering.



(b) Trade Courses in :

Fitting and Turning; Garage Practice; Metal Plate Work; Brassfinishing; Patternmaking; Boilermaking; Smithwork; Art Ironwork; Oxy-Acetylene Welding; Foundry Work; Gas-fitting; Watchmaking; Brass Moulding.

## 2. Department of Architecture and Building

(a) Technological Courses in :

Architecture; Civil Engineering; Quantity Surveying; Building Science; Land Surveying and Levelling; Townplanning.

(b) Trade Courses in :

Bricklaying; Carpentry and Joinery; Plumbing; Plastering; Painting and Decorating; Cabinetmaking; Upholstery; Woodcarving; Woodcutting Machinery; Coachbuilding; Coachpainting; Coachtrimming; Ship-construction.

## 3. Department of Printing and Book Production

Courses in :

(a) Typography :

Compositors' Work; Linotype and Intertype; Monotype Keyboard and Caster; Press Work.

(b) Bookbinding :

Stationery and Letterpress Binding; Gilding.

(c) Lithography, Transfer and Press Work.

(e) Office Work :

Junior Clerical and Warehouse Work; Costing and Estimating.

(f) Art and Design :

Modern Bookwork and Display, Illustration, etc.; Design for Bookbinders; Art for Lithographers.

(g) Irish.

## EXAMINATIONS

The Courses are designed to prepare students for the following examinations :

### 1. Department of Education Examinations

(a) Technological Certificate Examinations in :

Mechanical Engineering; Motor Car Engineering;  
Building.

(b) Trade Certificate Examinations in :

Fitters' Work; Turners' Work; Metal Plate Work;  
Brassfinishing; Motor Car Engineering; Boilermakers'  
Work; Brickwork; Carpentry and Joinery; Plumbers'  
Work; Plasterers' Work; Painters' and Decorators'  
Work; Cabinetmaking; Woodcutting Machinists' Work;  
Compositors' Work; Letterpress Machine Work.

### 2. Examinations of Professional Institutes

The Institution of Mechanical Engineers.

The Royal Institute of the Architects of Ireland.

The Chartered Surveyors' Institution (Eire Branch).

The Institution of Civil Engineers of Ireland.

The Town Planning Institute.

### 3. Board of Trade Examination for the Certification of Marine Engineers

### 4. City and Guilds of London Institute

Gas-fitting and other subjects corresponding to those listed above.



## SCHOLARSHIPS AND PRIZES

The City of Dublin Vocational Education Committee offer the following scholarships annually :

**Irish Proficiency Scholarships**, entitling the holders to free entry to the Day Junior Technical School and to an annual payment of £3 to cover the cost of books and equipment. The scholarships are awarded on the result of an oral examination in Irish. Candidates are first required to pass a qualifying examination of a standard equivalent to the Sixth Standard of the Primary Schools. These examinations are conducted in the month of June.

**Gaedhealtacht Scholarships**, entitling the holders to a Summer Course in the Gaedhealtacht, free of all expense. These scholarships are open to competition amongst the students of the Whole-time Day Courses. Dates of examinations are announced to students.

**Day Apprentice Scholarships**, entitling the holders to free training for two years in the Whole-time Day Apprentice Scholarship Courses, together with a payment of six shillings per week during the first year and eight shillings per week during the second year of the Courses. On the conclusion of the Courses, students are accepted as third-year apprentices to the trades. The scholarships are awarded to candidates between the ages of 14 and 16 years who have passed a qualifying examination of Primary Leaving Certificate standard and who have been selected on the result of an interview by a board, consisting of representatives of the School and of the Employers' and Operatives' Associations of the trades concerned. Examinations and interviews are generally conducted in the month of March.

**The Dublin Mechanics' Institute Scholarships** are provided for by the Dublin Mechanics' Institute Residuary Fund. One scholarship each is awarded annually in the Mechanical Engineering and Building Trades Groups to apprentices between the ages of 16 and 19 years who have been in attendance at a Technical Course during the previous session and made a specified minimum attendance. The Scholarships are tenable for three years and are valued about £3 each per year.



**The Department of Education** offers the following medals and prizes annually in connection with their examinations :

- (a) **Technological Certificate Examinations.** A prize of £1 in each subject of the Elementary and Intermediate Stages. A silver medal, a first prize of £2 and a second prize of £1 in each subject of the Advanced Stage.
- (b) **Trade Certificate Examinations.** A prize of £1 in each of the practical and written examinations of the Junior Stage. A bronze medal and a prize of £2 in each of the practical, and a prize of £1 in each of the written, examinations of the Senior Stage.

**The Mulligan Bequest Prizes**, valued £1 each, are offered to students of the Day Junior Technical School dependent on attendance and progress during the First Year. To be eligible, students must be in attendance at a suitable Second Year Course.

**The William Rooney Memorial Prizes** are provided for by a trust fund, established in memory of William Rooney (Fear na Muinntir), the Irish poet and patriot. A sum of approximately £12 is available annually for awards to students who are apprentices to the Mechanical Engineering and Building trades. The award alternates in successive years between students of the Engineering and Building trade groups, but is not available to holders of scholarships in the Day Apprentice Courses. A competent knowledge of Irish is an essential requirement, in addition to regular attendance and proficiency.

**The Irish Auctioneers' and Estate Agents' Association Prize.** A sum of £5 is provided annually for award as prizes to students of Estate Agency and Valuation Courses on the results of the sessional examinations, with additional credit for regular attendance.

**Brick and Stonelayers' Union Prizes.** A sum of £5 is provided annually for award as prizes to students of the Brickwork Courses. The Union conducts the examination.

**Carpentry and Joinery Prize.** A sum of £5 annually is anonymously contributed for award as prizes to students of the Carpentry and Joinery Courses.

**Gypsum and Bricks Prize.** An annual contribution is made by Gypsum and Bricks, Ltd., for award as prizes to students of the Plastering Courses. The sum contributed in the session 1945-46 was £50.

**The Dublin Master Printers' Association Prizes.** Prizes to the value of £5 are awarded annually to students of the Day Apprenticeship Courses in Printing.

**The Dublin Typographical Society's Prizes.** Prizes to the value of £5 are awarded annually to students of the Day Apprenticeship Courses in Printing.

**The Young Master Printers' Group Prize.** Prizes to the value of £5 are awarded annually to students of the Evening Courses in Printing.

**The William Rooney Memorial Shield** is awarded each year to the student of second year status in the Day Apprenticeship Course in Printing who shows greatest proficiency in his craft and the most competent knowledge of oral Irish.

**The Union of Sheet Metalworkers' Prize,** value £7 7s., is awarded annually to apprentices of the Sheet Metalwork Classes, mainly on the results of the Trade Certificate Examinations of the Department of Education.



## **GENERAL REGULATIONS FOR THE SCHOOLS AND CLASSES OPERATING UNDER THE AUTHORITY OF THE COMMITTEE**

### **1. ADMISSION AND ENROLMENT.**

In general, applicants for admission to the Classes and Courses must be not less than 14 years of age, but admission to a Whole-time Day Course may be granted where the applicant is over 13 years of age and has been enrolled for at least one year in the Sixth Standard of a Primary School. This Regulation does not apply to the School of Music.

Pupils in attendance at Primary and Secondary Schools are not eligible for enrolment, except by special permission of the School Authority.

One month after the opening date of Classes or Courses students will be permitted to enrol only with the special permission of the School Authority.

Admission to a particular Class or Course is subject to the published regulations relative to that Class or Course. The educational fitness of a student to enrol in a particular Course may be decided by an examination or other means considered necessary.

A student is not entitled to enrol in a Class or Course which the School Authority decides is too advanced for his/her standard of knowledge.

No student may attend a Class until issued with a Class Ticket.

Students will be enrolled during the period and at the times stated in the Committee's publications.

The School Authority is authorised to refuse an enrolment, pending a decision thereon by the Committee.

### **2. FEES.**

The fees payable for the several Classes and Courses included in the Scheme of Instruction are stated in the publications of the Committee, and must be paid in full on enrolment unless otherwise stated.

Where a Course includes subjects of different stages, the total fee will be computed on the basis that the initial fee is that of the highest stage.



For enrolments in subjects ancillary to the original enrolment, in the same or another School or Department, the additional fee will be computed on the basis that all the Classes have been selected on first enrolment. Where the additional subjects are deemed not to be ancillary, the fee payable will be as for a separate enrolment.

The School Authority is authorised to decide if the additional enrolment is ancillary to the original enrolment.

For fee purposes, Irish and/or Physical Training will be regarded as additional subjects to any Class or Course.

Fees will not be refunded except where a Class does not form.

### 3. TRANSFERS.

An enrolment is not transferable from one student to another. Transfers from one Class to another; from one school to another; from Day Classes to Evening Classes; or from Evening Classes to Day Classes, with allowance for the fees paid, will be permitted only for a satisfactory reason and by special permission of the School Authority.

### 4. PRODUCTION OF ORIGINAL RECEIPT.

Where applications are made for additional enrolments, or for transfers, the original receipt must be produced.

### 5. FORMATION AND CONTINUANCE OF CLASSES.

The Committee reserves the right at any time to add or delete Classes or Courses to or from its Scheme of Instruction; to extend the period of a Class; and to close a Class, or to alter the day or times of a Class Meeting.

The School Authority may suspend any student for breach of rules and regulations; absence from Classes; irregular or unpunctual attendance; disorderly conduct in the School or within the School precincts; disobedience to a member of the staff; or for any other reason deemed sufficient. The Committee reserves the right to confirm such suspension and to cancel the enrolment without refund of fee. Where immediate action is required because of indiscipline on the part of the students, any member of the School Staff has authority to take appropriate measures, pending report to the School Authority.

## 6. SMOKING.

Smoking is not permitted in the Schools.

## 7. INJURY TO STUDENTS.

The Committee does not accept responsibility for injury to students resulting from careless conduct or neglect or disregard of regulations.

## 8. STUDENTS' PROPERTY.

The Committee does not accept any responsibility for loss or damage to any student's property—bicycles, hats, coats, books, etc.

## 9. SCHOOL PROPERTY.

Where School property is damaged wilfully or through careless conduct on the part of students, such students (or their parents or guardians) may be required, on the order of the Committee, to pay for such repairs or replacements as may be necessary.

## 10. CHANGE OF ADDRESS.

Students should notify the School Authority of any change of address.

## 11. BOOKS, STATIONERY, EQUIPMENT, DRESS.

Students are expected to provide themselves with such books, stationery, equipment, and dress as may be required.

## 12. INFECTIOUS AND NOTIFIABLE DISEASES.

The head of the household must inform the School Authority immediately of any infectious or notifiable disease which may occur in the house in which a student is residing. Such a student must not resume attendance until permitted to do so by a medical officer.

## 13. EXAMINATIONS.

Permission to sit for Scholarship, Sessional, or other examinations held under the authority of the Committee, will be governed by the conditions relevant to the examinations.

## 14. SCHOOL AUTHORITY.

The term "School Authority," as used in these Regulations, indicates the Chief Executive Officer, or an officer delegated to act on his behalf.



# **CITY OF DUBLIN VOCATIONAL EDUCATION COMMITTEE**

## **TECHNICAL INSTITUTE, BOLTON STREET**

### ***Conditions Regulating the Admission of Students to Various Classes and Courses***

#### **DAY JUNIOR TECHNICAL COURSE FOR BOYS**

**(Bolton Street and Capel Street Schools)**

As the demand for admission greatly exceeds the accommodation available, boys will be admitted strictly in order of merit as determined by Special Entrance Examinations conducted during the first week of enrolment.

#### **Whole-time Day Apprentice Scholarship Courses in Plumbing, Painting and Decorating, Bricklaying, Plastering**

These Courses are organised in close association with the Masters' Association and the various official Trade Unions concerned. As these bodies accept responsibility for the placing of the boys in employment and as the numbers to be admitted to each year of the Courses must be related to the number of vacancies for employment which are likely to occur in the trades, the Scholarship holders will be selected by examination and interview from boys nominated by the Masters' and Trades' Unions concerned, in accordance with the regulations drawn up from time to time by the various Advisory Committees and approved by the Vocational Education Committee.

#### **Practical Workshop Classes in Trade Subjects**

These classes are provided for the sole purpose of supplementing the practical trade training of persons actually employed at and engaged in the various operations of the trade. The Committee realise that it is impossible for a person to learn a trade solely by attendance at these classes, and are further of the opinion that the admission to the classes of persons not actually engaged in the trades would be, not only of little use to such persons, but would prejudicially affect the instruction of those for whom the classes have been organised. Accordingly, the Committee reserve the right to



restrict enrolment in the trade practical classes to those persons who are actually employed in the several processes and operations of the trade.

The classes to which this regulation refers in the Session 1946-47 will be the Evening Trade Classes in :

Fitting and Turning; Garage Practice; Metal Plate Work; Brassfinishing; Patternmaking; Boilermaking; Smithwork; Art Iron Work; Oxy-Acetylene Welding; Foundry Work—Iron Moulding; Brass Moulding; Gas-fitting; Watchmaking; Bricklaying; Carpentry and Joinery; Plumbing; Plastering; Painting and Decorating; Cabinetmaking; Upholstery; Woodcutting Machinists' Work; Coachbuilding; Coachpainting; Coachtrimming; Shipconstruction; Typography; Bookbinding; Lithography.

And the Part-time Day Apprentice Workshop Classes in :

Cabinetmaking; Carpentry and Joinery; Painting and Decorating; Printing; Fitting and Turning; Hairdressing; Garage Practice.

For admission to the trade classes as named, proof of actual employment in the several processes and operations of the trade will be certificates to that effect from the Masters' Associations and/or the official Trades Unions of the trade concerned.

## **DAY AND EVENING TECHNOLOGICAL COURSES**

**(Architecture, Quantity and Building Surveying, Mechanical Engineering, Motor Car Engineering, Marine Engineering)**

Only such students will be admitted as have attained a standard of general education that will enable them to follow all the subjects of the Course with profit. In the absence of satisfactory evidence on this point, intending students may be required to pass a qualifying examination as a condition of admission.

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*The above Regulations have been adopted by Resolution of the Vocational Education Committee for the City of Dublin and approved by the Minister for Education.*

## FEES

Course	Fee			
	£	s.	d.	
1. DAY JUNIOR TECHNICAL COURSE ...	1	0	0	per Session
2. SPECIALISED HIGHER TECHNOLOGICAL COURSES in:				
Marine Engineering (No. 7) ...	3	0	0	per Course
Architecture (Whole-time Course Nos. 106-8) ...	3	0	0	per Session
Ditto (Part-time Course Nos. 101-5) ...	1	10	0	„
Ditto (Design only) ...	1	2	6	„
Quantity and Building Surveying (Whole-time Course Nos. 120-121) ...	3	0	0	„
Ditto (Part-time Course Nos. 124-126) ...	1	10	0	„
Town Planning (Evening Course Nos. 280-281) ...	5	0	0	„
3. EVENING COURSES AND CLASSES :				
All Courses or Single Subjects (except Irish) ...	7	6		per Session
Irish ...	2	6		„
Additional Subjects, each ...	2	6		„

Refunds of fees will not be made except in cases where classes, for which students have enrolled, do not form.

## EQUIPMENT

The equipment of the School can be briefly described under seven heads: (1) Laboratories, (2) Drawing Offices and Art Room, (3) Workshops, (4) Classrooms and Lecture Rooms, (5) Gymnasium, (6) Surveying and Levelling Equipment and (7) Models and Specimens.



## Laboratories

The Laboratories, covering a floor area of 7,500 sq. feet, are five in number :

- (a) AN ELEMENTARY PHYSICS AND CHEMISTRY LABORATORY with Preparation Rooms and Stores equipped with the usual apparatus required for preliminary courses in General Science.
- (b) A MECHANICS AND MATERIALS TESTING LABORATORY well equipped with apparatus for demonstrating the laws of statics and dynamics and with machines for testing engineering and building materials in compression, tension, shear, bending and torsion, and for measuring deflections and extensions under load. The equipment includes an Avery vertical single-lever testing machine capable of applying tension or compression up to 5 tons; a vertical-screw testing machine for deflection and cross-breaking tests; a torsion testing machine; a cement testing machine of the compound lever type; a beam testing apparatus; a Searle extensometer and several wire extensometers and compression and tension testing machines for springs.
- (c) A HEAT LABORATORY with equipment for experimental work on Heat and Heat Engines, including Jücker and Bomb Calorimeters, flashpoint and viscosity apparatus, pyrometer (Whipple's Heat Recorder), equipment for the study of the gas laws (including temperature-pressure apparatus for high pressures), steam pressure gauges, Peugeot Engine and the Davidson apparatus demonstrating the principles of domestic hot-water installations. Extensions of the equipment are being planned to permit of making comparative measurements of the thermal conductivity of building materials.
- (d) AN ELECTRICITY LABORATORY equipped for experimental work on D.C. with special equipment for use in connection with the courses in Automobile Electricity.



- (e) AN ENGINE TESTING LABORATORY fully equipped for the practical study of Petrol, Oil, Gas and Steam Engine problems. The plant includes :

A 4-cylinder Wolsley petrol engine fitted with Hopkinson Indicator for photographing the indicator diagrams; a water-cooled Prony brake; calorimeters for measuring heat loss in jacket water and exhaust gases and measuring tank for finding petrol consumption.

A 50 B.H.P. Diesel oil engine by Mirrlees, Bickerton and Day fitted with motor-driven compressor and Froude dynamometer for B.H.P. measurement.

A 28 B.H.P. gas engine by Crossley Bros. fitted with the usual apparatus for making B.H.P. and I.H.P. tests.

Two experimental steam engines with apparatus for making B.H.P. and I.H.P. tests.

Experimental apparatus for the study of the properties of steam.

### **Drawing Offices and Art Room**

There are four well equipped and well lighted Drawing Offices and an Art Room covering in the aggregate a floor area of 6,000 sq. ft. The Art Room is provided with a good selection of models and plaster casts.

### **Workshops**

Trade workshops, having an aggregate floor area of over 30,000 sq. ft., are individually equipped for each of the trades covered by the activities of the Institute.

THE FITTING AND TURNING WORKSHOPS are well provided with modern machine tools, including: ten power driven screw-cutting surfacing lathes, including two with magazines, three drilling machines, one vertical and one horizontal universal milling machine, a 3-ft. planer, a shaping machine, a nibbling machine, a universal grinding machine, a power saw and grinders for twist drills and lathe tools. There are three forges.

THE GARAGE is equipped with the usual small tools for repairing British and American cars and with an hydraulic hoist; portable electric drilling machine; hydraulic press; boring bars for big-end and main bearings and for cylinder reconditioning; connecting rod and steering aligning tools; battery-charging equipment; air meter for tyre inflation; Stromberg engine test apparatus and Weston electrical fault-finding instruments.

THE WOODCUTTING MACHINE SHOP is equipped with a heavy circular saw bench; a tenoning and scribing machine; a surfacing and thicknessing machine; a bandsawing machine; two vertical-spindle moulding machines; a fret- or jig-sawing machine; a woodturning lathe; a sandpapering machine; four grinding machines; a chain and chisel morticing machine and a small circular saw bench.

THE PRINTING AND BOOK PRODUCTION WORKSHOPS include :

In the *Letterpress Section*, in addition to modern equipment for Compositors, a "Pony" Miehle Machine, Phoenix, Arab and Favourite Platen Machines, Heidelberg Automatic Platen; Dawson Payne S.W. Automatic Cylinder Machine, Payne Demy Stop-Cylinder Wharfedale Machine, with face-up delivery, two Linotype Machines, one Intertype Machine, two Monotype Keyboards and a Monotype Caster, with Lead and Rule and Display Type Attachment.

In the *Lithography Section* are a Royal Folio Waite Rotary Offset Machine, four transfer presses, and a Copper-plate press.

The *Photo-Lithography Section* includes one 12 ins. x 10 ins. Hunter Camera, illuminated by Boardman Arc lamps, and the usual equipment for dark room; printing down frames, plate whirler, electric drying fan, etc.

The *Bookbinding* equipment includes all the usual appliances for Forwarding and Finishing both Stationery and Letterpress Binding, Gilding, Marbling, Gold blocking, etc.

Other fully equipped workshops are provided in the Mechanical Engineering and Building Departments as follows :



- (a) Mechanical Engineering : Boilermaking, Foundry, Pattern-making, Metal-plate Work and Oxy-acetylene Welding, Gasfitting, Smithwork and Art Ironwork.
- (b) Building : Brickwork and Masonry, Carpentry and Joinery, Plumbing (equipped with oxy-acetylene welding, cutting and lead-burning plants), Plastering, Painting and Decorating, Cabinetmaking, Upholstery, Coach and Motor-body Building, Coachpainting and Coachtrimming.

There is a building yard in which students of the several building classes co-operate in the erection of small buildings.

### **Classrooms and Lecture Rooms**

There are a number of well-lighted classrooms equipped on modern lines and covering in the aggregate a floor area of over 6,000 sq. ft., and a Cinema Theatre with seating for 200 students.

### **Gymnasium**

A large Gymnasium covering a floor area of 2,200 sq. ft. is provided for Physical Training.

**Surveying and Levelling Equipment** for class work and field work includes 100-ft. and Gunter's chains and accessories; two improved Dumpy levels and one Crooke Throughton level; theodolite; levelling staffs; plane-table clinometer; prismatic compass; planimeter; the usual scales, computing scales, proportional dividers, protractors, etc.

### **Models and Specimens**

A large collection of Mechanical Engineering and Building Construction models has been acquired and is constantly being added to. These include models of machine parts, sectioned models of steam engine parts and of all common types of valve gear, scale and full-size models of carpentry and joinery construction, plumbing work, structural engineering details, sanitation and drainage details, full size specimens of brickwork and masonry and combined building details, examples of decorative plasterwork and specimens of building materials.



# DEPARTMENT OF MECHANICAL ENGINEERING

*Head of Department:—The Principal*

## TEACHING STAFF

### 1. Mathematics, Physics and Applied Mechanics:

J. BOYLAN, A.M.I.MECH.E.,

A.M.I.C.E.I.

W. BRODERICK, M.SC., H.DIP.ED.

J. CAMPBELL, M.A., H.DIP.ED.

H. C. CLIFTON, B.A.

E. P. DUNNE, A.M.I.MECH.E.,

A.M.I.C.E.I.

W. D. HORGAN, B.A.

J. J. HUGHES, H.DIP.ED.

S. H. KNIGHT, B.A.

P. J. LYONS, M.SC.

J. NUNAN, B.SC., H.DIP.ED.

W. J. O'DOHERTY, B.A.

S. O'TUAMA, B.SC.

### 2. Heat Engines and Motor Car Engineering:

W. D. PILE, A.M.I.MECH.E.,

M.I.A.E.

G. R. SMITH, B.E.

### 3. Automobile Electricity:

P. V. HOBBS, M.A.E.T.

W. D. HORGAN, B.A.

S. H. KNIGHT, B.A.

### 4. Machine Design:

J. C. FITZPATRICK, M.I.MECH.E.,

M.I.C.E.I.

### 5. Machine Drawing:

B. FEE

J. F. LAWLESS

W. J. O'BRIEN, DIP.ING.

J. ROCHE

J. C. SLATER

### 6. Physical Training:

M. DOOGAN

### 7. Trade:—Theory and Practice:

Boilermaking—R. BRYAN

Brassfinishing—M. O'CARROLL

Brass Moulding—C. MAPLES

Fitting and Turning—

G. AUNGIER

R. BENT

S. EGAN

H. FITZGERALD

J. GRIBBEN

R. TYNAN

W. DALY

Foundry Work—T. C. SMITH

Garage Practice—R. J. DOWLING

G. MACKENZIE

J. GUIRKE

Gasfitting—J. LENIHAN

Metalplate Work—J. DOOLEY

T. J. RYAN

Oxy-acetylene Welding—

T. J. RYAN

Patternmaking—E. J. KENNEDY

Smithwork and Art Ironwork—

A. J. WARD

Watchmaking—F. O'KELLY



## DESCRIPTION OF COURSES

### 1. TECHNOLOGICAL COURSES

**The Evening Course in Marine Engineering (Nos. 9-12)** is a 4-years' course designed for students who are employed in engineering works and who intend to go to sea as marine engineers. The course covers the syllabus of Part A of the Certificate of Competency Examination (2nd Class) of the Board of Trade. Before going to sea, a student is required to have completed at least four years of approved apprenticeship, and it is a distinct advantage to have already passed part A of the Examination.

**The Evening Course in Mechanical Engineering Technology (Nos. 1-6)** is a 6-years' course designed for students in engineering employment who wish to qualify in the technological branches of their work. A good standard of general education is required on entrance. Apprentices to the engineering trades who enjoy full opportunity for learning all branches of their trade in the works and who have the required standard of general education, are advised to choose the technological in preference to the trade course.

The course prepares students for the Technological Certificate Examinations in Mechanical Engineering of the Department of Education.

**The Evening Courses in Motor Car Engineering Technology (Nos. 49-58)** are 5-year courses similar in aim to the above, designed for students employed in a technical capacity in Motor Car Engineering industry. They prepare students for the Technological Certificate Examinations in Motor Car Engineering of the Department of Education. There are two courses provided, corresponding with the two subject-groups of the Certificate Examinations.

### 2. TRADE COURSES

These courses are designed for apprentices and young journeymen engaged in the several trades. Every facility is given to students who wish to enter for the Trade Certificate Examinations of the Depart-



ment of Education or of the City and Guilds of London Institute, these examinations being conducted in the School at the close of the evening session.

EVENING COURSES leading to the Department of Education Examinations are provided in the following trades :

Fitters' and Turners' Work; Metalplate Work; Brass-finishing; Motor Car Engineering; Boilermaking.

Evening Courses are also provided in the following trades :

Patternmaking; Foundry Work; Smithwork and Art Ironwork; Oxy-acetylene Welding; Gasfitting; Watchmaking; Brass Moulding.

**The Part-time Day Course in Fitting and Turning.** By agreement with certain employers, apprentices are allowed time off to attend this course on one morning and one afternoon per week (6 hours per week). It is a 2-years' course which aims at the attainment of the standard of the Junior Trade Certificate of the Department of Education.

**The Whole-time Day Apprentice Scholarship Course in Watchmaking** is separately described in another part of this Prospectus (page 60).

### 3. PHYSICAL TRAINING

An Evening Course in Physical Training for men is provided.

### 4. IRISH LANGUAGE

Special Evening Courses in Irish, graded to meet the requirements of students, are conducted in the Branch School in Capel Street. All students are earnestly recommended to attend one of these courses and thereby to play a vital part in the language revival and at the same time to equip themselves more fully to take their proper places in the industrial life of a Gaelic State.

Irish Courses in any of the Technical Institutes conducted by the City of Dublin Vocational Education Committee are available to students of this Institute at a nominal fee.

## COURSES AND TIME TABLES

## MECHANICAL ENGINEERING

## TECHNOLOGICAL CERTIFICATE COURSES

No. of Course	SUBJECT	Day	Hour	Room	TEACHER	No. of Syllabus
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## ELEMENTARY STAGE

1	FIRST YEAR:					
	Mechanical Drawing ... ..	Wednesday	7.30-9.30	B 11	B. E. Fee	
	Engineering Science (Heat) ... .. and/or	Friday ...	7.30-9.30	A 11	J. Nunan	
	Engineering Science (Mechanics)	Mon. or Tues.	7.30-9.30	A 5	E. P. Dunne	
2	Mathematics ... ..	Tues. or Mon.	7.30-9.30	B 26	P. J. Lyons	
	SECOND YEAR:					
	Mechanical Drawing ... ..	Thursday	7.30-9.30	B 11	B. E. Fee	
	Engineering Science (Heat) ... .. and/or	Friday ...	7.30-9.30	A 11	J. Nunan	
	Engineering Science (Mechanics)	Monday ...	7.30-9.30	A 5	E. P. Dunne	
	Mathematics ... ..	Wednesday	7.30-9.30	{ B 26 B 27	J. Campbell and W. J. O'Doherty	

## INTERMEDIATE STAGE

3	THIRD YEAR:					
	Machine Drawing ... ..	Monday ...	7.30-9.30	B 11	W. J. O'Brien	
	Heat Engines ... ..	Wednesday	7.30-9.30	A 11		
	Mechanics ... ..	Thursday	7.30-9.30	A 5	E. P. Dunne	
4	Mathematics ... ..	Friday ..	7.30-9.30	C 7	P. J. Lyons	
	FOURTH YEAR:					
	Machine Drawing ... ..	Monday ...	7.30-9.30	B 11	W. J. O'Brien	
	Heat Engines ... ..	Tuesday ...	7.30-9.30	A 11		
	Mechanics ... ..	Friday ...	7.30-9.30	A 5	E. P. Dunne	
	Mathematics ... ..	Wednesday	7.30-9.30	C 7	H. C. Clifton	

## ADVANCED STAGE

5	FIFTH YEAR:					
	Machine Design ... ..	Monday ...	7.30-9.30	B 10	J. C. Fitzpatrick	
	Heat Engines ... ..	Thursday	7.30-9.30	C 7		
	Applied Mechanics ... ..	Wednesday	7.30-9.30	A 5	J. Boylan	
6	Mathematics ... ..	Tuesday ...	7.30-9.30	C 7	H. C. Clifton	
	SIXTH YEAR:					
	Machine Design ... ..	Friday ...	7.30-9.30	B 26	J. C. Fitzpatrick	
	Heat Engines ... ..	Wednesday	7.30-9.30	B 18		
	Applied Mechanics ... ..	Thursday	7.30-9.30	B 27	J. Boylan	
	Mathematics ... ..	Tuesday ..	7.30-9.30	C 7	H. C. Clifton	



## MARINE ENGINEERS' CERTIFICATE COURSE

## (Part A)

No. of Course	SUBJECT	Day	Hour	Room	TEACHER
9	FIRST YEAR: Course No. 1 (Mechanical Engineering).				
10	SECOND YEAR. Course, No. 2 (Mechanical Engineering).				
11	THIRD YEAR. Course No. 3 (Mechanical Engineering)				
12	FOURTH YEAR. Course No. 4 (Mechanical Engineering).				

No. of Course	SUBJECT	Day	Hour	Room	TEACHER	No. of Syllabus
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### BRASS FINISHING

25	FIRST YEAR :					
	Brassfinishing—Practical...	...	Monday ...	7.30-9.30	D 8	M. O'Carroll
	Workshop Theory ...	...	Thursday	8.35-9.35	C 21	J. Gribben
	and					
	Workshop Calculations ...	...	Thursday	7.30-8.30	C 22	J. J. Hughes
	Mechanical Drawing ...	...	Wednesday	7.30-9.30	B 13	J. C. Slater
26	SECOND YEAR :					
	Brassfinishing—Practical	...	Friday	7.30-9.30	D 8	M. O'Carroll
	Workshop Theory ...	...	Wednesday	8.35-9.35	C 21	J. Gribben
	and					
	Workshop Calculations ...	...	Wednesday	7.30-8.30	C 22	J. J. Hughes
	Mechanical Drawing ...	...	Thursday	7.30-9.30	B 11	B. Fee, J. Lawless
27	THIRD YEAR :					
	Brassfinishing—Practical	...	Friday	7.30-9.30	D 8	M. O'Carroll
	Workshop Theory ...	...	Tuesday ..	7.30-8.30	C 21	J. Gribben
	and					
	Workshop Calculations ...	...	Tuesday ..	8.35-9.35	C 22	J. J. Hughes
	Machine Drawing ...	...	Monday ..	7.30-9.30	B 11	W. J. O'Brien

Students are recommended to add a class in Free Drawing and Design.

### BOILERMAKING

28	Boilermaking, Lectures and Drawing I.		Tuesday ...	7.30-9.30	C 20	R. Bryan
	Boilermaking, Practical I.	...	Wednesday	7.30-9.30	D 10	R. Bryan
29	Boilermaking, Lectures and Drawing II.		Thursday	7.30-9.30	C 20	R. Bryan
	Boilermaking, Practical II	...	Monday ...	7.03-9.30	D 10	R. Bryan

Students are recommended to add a suitable class in Mathematics.

### SMITHWORK AND ART IRONWORK

30	Smithwork Practical ...	...	Tuesday			
			and/or Friday	7.30-9.30	D 10	A. J. Ward
	Art Ironwork, Practical	...	Thursday	7.30-9.30	D 10	A. J. Ward
	Machine Drawing—I C	...	Monday ...	7.30-9.30	B 13	J. C. Slater

Students are recommended to add a class in Design.

### METAL PLATE WORK.

35	FIRST YEAR :					
	Metal Plate Work, Lecture and Drawing—I.		Thursday	7.30-9.30	C 5	J. Dooley
	Metal Plate Work, Practical, I.		Tuesday ...	7.30-9.30	D 2	J. Dooley, T. I. Ryan



No. of Course	SUBJECT	Day	Hour	Room	TEACHER	No. of Syllabus
36	SECOND YEAR: Metal Plate Work, Lecture and Drawing—II.	Monday ...	7.30-9.30	C 5	J. Dooley	
	Metal Plate Work, Practical, II ...	Wednesday	7.30-9.30	D 2	J. Dooley, T. J. Ryan	
37	THIRD YEAR: Metal Plate Work, Lecture and Drawing—III.	Monday ...	7.30-9.30	C 5	J. Dooley	
	Metal Plate Work, Practical—III.	Wednesday	7.30-9.30	D 2	J. Dooley, T. J. Ryan	

Students are recommended to add a class in Design.

### OXY-ACETYLENE AND ELECTRIC WELDING

38	FIRST YEAR: Oxy-Acetylene Welding ...	Monday ...	7.30-9.30	D 2	T. J. Ryan	
39	SECOND YEAR: Oxy-Acetylene & Electric Welding	Friday ...	7.30-9.30	D 2	T. J. Ryan	
40	THIRD YEAR: Oxy-Acetylene & Electric Welding	Thursday	7.30-9.30	D 2	T. J. Ryan	

Students of all welding classes must provide themselves with goggles.

### GAS FITTING

The Course in Gas Fitting has been arranged in compliance with the requirements of the Institution of Gas Engineers for Students preparing for the Examinations prescribed by that Body.

41	SECTION A Lectures and Calculations ...	Tuesday ...	7.30-9.30	B 27	—	
	Gas Fitting, Practical ...	Monday ...	7.30-9.30	B 21	J. Lenihan	
42	SECTION B Lectures and Calculations—II. ...	Thursday	7.30-9.30	A 8	—	
	Gas Fitting, Practical—II. ...	Tuesday ...	7.30-9.30	B 21	J. Lenihan	
43	SECTION C Lectures and Calculations—III. ...	Wednesday	7.30-9.30	A 8	—	
	Gas Fitting, Practical—III. ...	Thursday	7.30-9.30	B 21	J. Lenihan	

# MOTOR CAR ENGINEERING COURSES

## TRADE CERTIFICATE COURSE

(Trade Apprentices and Mechanics)

### JUNIOR STAGE

No. of Course	SUBJECT	Day	Hour	Room	TEACHER	No. of Syllabus
45	FIRST YEAR :					
	Garage Practice ... 1 A	Tuesday ...	7.30-9.30	C 15	R. J. Dowling and G. Mackenzie	
	Workshop Practice ... 1 A	Wednesday	7.30-9.30	D 8	S. Egan	
45	Electricity ... 1 A	Monday ...	7.30-9.30	A 6	W. D. Horgan and S. H. Knight	
	Motor Car Engineering (Lecture)	Thursday	7.30-9.30	B 15	G. R. Smith	
	Garage Practice ... 1 B	Wednesday	7.30-9.30	C 15	R. J. Dowling and G. Mackenzie	
	Workshop Practice ... 1 B	Tuesday ...	7.30-9.30	D 8	S. Egan	
	Electricity ... 1 B	Monday ...	7.30-9.30	A 6	W. D. Horgan and S. H. Knight	
	Motor Car Engineering (Lecture)	Friday ...	7.30-9.30	B 15	G. R. Smith	
46	SECOND YEAR :					
	Garage Practice ... 2 A	Thursday	7.30-9.30	C 15	R. J. Dowling and G. Mackenzie	
	Workshop Practice ... 2 A	Friday ...	7.30 9.30	D 5	H. Fitzgerald	
	Electricity ... 2 A	Tuesday ...	7.30-9.30	A 6	W. D. Horgan and S. H. Knight	
	Motor Car Engineering (Lecture)	Monday ...	7.30-9.30	B 15	G. R. Smith	
46	Garage Practice ... 2 B	Friday ...	7.30-9.30	C 15	R. J. Dowling and G. Mackenzie	
	Workshop Practice ... 2 B	Thursday	7.30-9.30	D 5	S. Egan	
	Electricity ... 2 B	Tuesday ...	7.30-9.30	A 6	W. D. Horgan and S. H. Knight	
	Motor Car Engineering (Lecture)	Monday ...	7.30-9.30	B 15	G. R. Smith	

### SENIOR STAGE

47	THIRD YEAR :					
	Garage Practice ...	Monday ...	7.30-9.30	C 15	R. J. Dowling and G. Mackenzie	
	Workshop Practice ...	Wednesday	7.30-9.30	D 7	G. Aungier, R. Bent	
	Electricity ...	Friday ...	7.30-9.30	A 6	P. V. Hobbs	
48	Motor Car Engineering (Lecture)	Tuesday ...	7.30-9.30	B 15	W. D. Pile	
	FOURTH YEAR :					
	Garage Practice ...	Monday ...	7.30-9.30	C 15	R. J. Dowling and G. Mackenzie	
	Workshop Practice ...	Friday ...	7.30-9.30	D 7	G. Aungier, R. Bent	
	Electricity ...	Thursday	7.30-9.30	A 6	P. V. Hobbs	
	Motor Car Engineering (Lecture)	Wednesday	7.30-9.30	B 15	W. D. Pile	



# TECHNOLOGICAL CERTIFICATE COURSES

(Students may choose either Course A or Course B)

## Course A

### ELEMENTARY STAGE

No. of Course	SUBJECT	Day	Hour	Room	TEACHER	No. of Syllabus
49	FIRST YEAR :					
	Motor Car Engineering (Lecture)	Thursday	7.30-9.30	B 15	G. R. Smith	
	Automobile Electricity ... ..	Monday ...	7.30-9.30	A 6	W. D. Horgan and S. H. Knight	
50	SECOND YEAR :					
	Motor Car Engineering (Lecture)	Monday ...	7.30-9.30	B 15	G. R. Smith	
	Automobile Electricity ... ..	Tuesday ...	7.30-9.30	A 6	W. D. Horgan and S. H. Knight	

### INTERMEDIATE STAGE

51	THIRD YEAR :					
	Motor Car Engineering (Lecture)	Tuesday ...	7.30-9.30	B 15	W. D. Pile	
	Automobile Electricity ... ..	Friday ...	7.30-9.30	A 6	P. V. Hobbs	
52	FOURTH YEAR					
	Motor Car Engineering (Lecture)	Wednesday	7.30-9.30	B 15	W. D. Pile	
	Automobile Electricity ... ..	Thursday	7.30-9.30	A 6	P. V. Hobbs	

### ADVANCED STAGE

53	FIFTH YEAR :					
	Motor Car Engineering (Lecture)	Friday ...	7.30-9.30	C 22	W. D. Pile	
	Automobile Electricity ... ..	Thursday	7.30-9.30	A 6	P. V. Hobbs	

## Course B

### ELEMENTARY STAGE

54	FIRST YEAR :					
	Motor Car Engineering (Lecture)	Thursday	7.30-9.30	B 15	G. R. Smith	
	Engineering Science (Heat) ... and/or	Friday ...	7.30-9.30	A 11	J. Nunan	
	Engineering Science (Mechanics)	Monday ...	7.30-9.30	A 5	E. P. Dunne	
55	SECOND YEAR :					
	Motor Car Engineering (Lecture)	Monday ...	7.30-9.30	B 15	G. R. Smith	
	Engineering Science (Heat) ... and/or	Friday ...	7.30-9.30	A 11	J. Nunan	
	Engineering Science (Mechanics)	Tuesday ...	7.30-9.30	A 5	E. P. Dunne	

## INTERMEDIATE STAGE

No. of Course	SUBJECT	Day	Hour	Room	TEACHER	No. of Syllabus
THIRD YEAR :						
56	Motor Car Engineering (Lecture)	Tuesday ...	7.30-9.30	B 15	W. D. Pile	
	Heat Engines ... ..	Wednesday	7.30-9.30	A 11		
	Mechanics ... ..	Thursday	7.30-9.30	A 5	E. P. Dunne	
FOURTH YEAR :						
57	Motor Car Engineering (Lecture)	Wednesday	7.30-9.30	B 15	W. D. Pile	
	Heat Engines ... ..	Tuesday ...	7.30-9.30	A 11		
	Mechanics ... ..	Friday ...	7.30-9.30	A 5	E. P. Dunne	

## ADVANCED STAGE

FIFTH YEAR :						
58	Motor Car Engineering (Lecture)	Friday ...	7.30-9.30	C 22	W. D. Pile	
	Heat Engines ... ..	Thursday	7.30-9.30	B 18		
	Applied Mechanics ... ..	Wednesday	7.30-9.30	A 5	J. Boylan	

## WATCH AND CLOCK MAKING

61	Watch and Clock Making—Theory and Practical	Thursday	7.30-9.30	C 6	F. O'Kelly	
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## PHYSICAL TRAINING (Men)

62	Physical Training Div. I ...	Monday ...	7.30-9.30	C 9	M. C. Doogan	
63	Physical Training Div. II ...	Tuesday ...	7.30-9.30	C 9	M. C. Doogan	



# DEPARTMENT OF ARCHITECTURE & BUILDING

*Head of Department:—*The Vice-Principal

## TEACHING STAFF

### 1. Architectural Design:

- D. F. O'DWYER, B.ARCH.,  
M.R.I.A.I.  
B. O'REILLY, B.ARCH.

### 2. Building Construction, Specifications and Materials:

- A. HANWAY  
D. F. O'DWYER, B.ARCH.,  
M.R.I.A.I.  
A. E. WILLIAMS, M.R.I.A.I.  
A.M.I.S.E.  
L. TIERNEY, B.ARCH., A.R.I.B.A.,  
M.R.I.A.I.  
B. O'REILLY, B.ARCH.

### 3. Structural Engineering, Surveying:

- E. P. DUNNE, A.M.I.M.E.,  
A.M.I.C.E.I.  
W. J. O'BRIEN, DIP.ING.

### 4. Sanitation and Drainage:

- R. KAVANAGH, B.ARCH., M.R.I.A.I.

### 5. Heating, Lighting and Ventilation:

- N. MATHEWS, B.E., A.R.C.S.C.I.,  
M.I.C.E.I., M.I.H.V.E.

### 6. Townplanning:

- K. I. NOWLAN, B.SC., B.E.,  
A.M.T.P.I.  
E. O'BYRNE, B.ARCH., M.R.I.A.I.,  
A.M.T.P.I.

### 7. Quantities:

- M. J. BURKE, M.S.A., F.S.I.,  
L.R.I.B.A.  
H. DARKER, P.A.S.I.

### 8. Mathematics and Science:

- W. BRODERICK, M.SC., H.DIP.ED.  
J. CAMPBELL, M.A., H.DIP.ED.  
H. CLIFTON, B.A.  
E. P. DUNNE, A.M.I.M.E.,  
A.M.I.C.E.I.  
W. D. HORGAN, B.A.  
J. NUNAN, B.SC., H.DIP.ED.  
W. J. O'BRIEN, DIP.ING.  
S. O'TUAMA, B.SC.

### 9. Geometry and Drawing:

- J. J. BURKE  
J. CUNNINGHAM  
R. GRIMES, A.B.I.C.C.  
A. HANWAY  
B. O'REILLY, B.ARCH.  
J. C. SLATER  
W. WHELAN, A.M.



# **10. Commercial and Legal Subjects:**

P. F. LEONARD, M.A., Barrister-at-Law

# **11. Languages:**

L. MACAMHLAOIBH, B.A. (HONS.)

M. MOORE

# **12. Physical Training:**

R. BUNYAN

# **13. Trade:**

Bricklaying—E. BYRNE

Cabinetmaking—M. MURRAY

Carpentry and Joinery—

T. BRIDGEMAN

J. O'CALLAGHAN

Coachbuilding—H. DEMPSEY  
P. O'REILLY

Coachpainting—R. McNAMARA

Coachtrimming—G. O'KEEFE

Painting and Decorating—  
C. O'BYRNE

Plastering—  
J. SAUNDERS, FULL TECH. C. & G.

Plumbing—  
J. BOLTON, FULL TECH. C. & G.  
D. ROONEY

Ship Construction—  
W. KENNEDY  
J. O'BRIEN

Upholstery—J. ROCHE

Woodcutting Machinery—  
C. KENNY

Woodcarving—J. LEVINS

## DESCRIPTION OF COURSES

### 1. TECHNOLOGICAL COURSES

**The Whole-time Course in Architecture (Nos. 106-108)** is a 3-years' day course designed to prepare students for the Intermediate Examination of the Royal Institute of the Architects of Ireland. It is assumed that students taking the course will have passed the Preliminary Examination of that Institute or one of the examinations (*e.g.*, Secondary Leaving Certificate or Matriculation) that confer exemption therefrom. On completion of this course, students are recommended to obtain employment in an architect's office and to continue for a further two years in the Part-time Course (see below) in preparation for the Final Examination. The Institute of Architects has agreed to allow students of this course to submit work done in the School in lieu of the Testimonies of Study normally required of candidates for the Intermediate Examination.

**The Part-time Course in Architecture (Nos. 101-105)** is a 5-years' part-time afternoon and evening course for students in Architects' offices designed to prepare them for the Intermediate and Final Examinations of the Royal Institute of the Architects of Ireland. It is assumed that students taking this course will have passed the Preliminary Examination of that Institute or one of the examinations carrying exemption therefrom. This course involves attendance on two to four afternoons per week, in addition to evening classes (see Time Tables).

Alternative evening classes in Design are provided for students who are unable to attend afternoon classes.

**The Whole-time Course in Quantity and Building Surveying (Nos. 120-121)** is a 2½-years' day course designed to prepare students for the First and Intermediate Examinations of the Chartered Surveyors' Institution (Eire Branch, Building and Quantities sub-division). It is assumed that students taking the course will have passed the Preliminary Examination of that Institution or one of the examinations that confer exemption therefrom. The Chartered Surveyors' Institution accepts this course as a training qualification, rendering a student eligible to sit for the First and Intermediate Examinations. Before sitting for his Final Examina-



tion, he must spend two years in a Surveyors' office and during this period he may follow the evening course.

**The Part-time Course in Quantity and Building Surveying (Nos. 124-126)** is a  $2\frac{1}{2}$ -years' part-time afternoon and evening course for students in Surveyors' offices. It is similar in aim to the whole-time course, described above, and involves attendance on two afternoons per week, in addition to evening classes (see Time Tables). On completion of this course, the student may transfer to the evening course in preparation for the Final Examination of the Institution.

**The Evening Course in Quantity and Building Surveying (Nos. 127-129)** is a 3-years' evening course (third, fourth and fifth years) in preparation for the Final Examination of the Chartered Surveyors' Institution, and is suited to students who have completed the whole-time or part-time courses described above.

**The Evening Course in Valuation and Estate Agency (Nos. 140-142)** is a  $2\frac{1}{2}$ -years' evening course designed to prepare students for the First and Intermediate Examinations of the Chartered Surveyors' Institution (Eire Branch)—Valuation sub-Division. It also follows closely the examinations syllabus of the Auctioneers' and Estate Agents' Association of the United Kingdom and has been accepted as an approved course of training by the Irish Auctioneers' and Estate Agents' Association.

**The Evening Course in Civil Engineering (Nos. 130-133)** is a 5-years' evening course designed for students who are employed in Engineering offices, to prepare them for the Associate-Membership Examination of the Institution of Civil Engineers of Ireland. A certificate of successful completion of this course is accepted by the Institution as evidence of technical education which is a pre-requisite for admission to that Examination. Before admission, a candidate must also satisfy the Institution as to his practical training in Engineering.

**The Evening Course in Townplanning** is a 2-years' course designed to prepare students for the Final Examination of the Townplanning Institute. Admission to the course is confined to persons who have passed the Intermediate Examination of the Institute or who hold qualifications that confer exemption therefrom.

**The Evening Courses in Building Science (Nos. 112-117)** are 5-years' evening courses designed for students who are employed in a technical capacity in the building industry and leading to the Certificate Examinations of the Department of Education. Certificates are awarded in the Elementary, Intermediate and Advanced Stages to candidates who obtain passes in the following subjects :

- ELEMENTARY STAGE : (i) Building Construction and  
(ii) Mathematics and Geometry.

INTERMEDIATE AND ADVANCED STAGES :

- (i) Building Construction ;  
(ii) Structural Engineering *or*  
Builders' Quantities *or*  
Plane and Solid Geometry.

**The Evening Course in Land Surveying and Levelling (Nos. 146-147)** is suitable for assistants and students in Architects', Engineers', Surveyors', Builders' and Insurance offices. It comprises lectures and field work. The latter are held on Saturday afternoons during late spring and early summer.

## 2. TRADE COURSES

These courses are designed for apprentices and young journeymen engaged in the several trades. Every facility is given to students who wish to enter for the Trade Certificate Examinations of the Department of Education or of the City and Guilds of London Institute (see page 10), these examinations being conducted in the School at the close of the evening session.

EVENING COURSES leading to the Department of Education Examinations are provided in the following trades :

- Bricklaying (three year course, Nos. 154-156);  
Carpentry and Joinery (five year course, Nos. 159-163);  
Plumbing (four year course, Nos. 164-168);  
Plastering (four year course, Nos. 169-172);  
Painting and Decorating (four year course, Nos. 173-176);  
Cabinetmaking (two year course, Nos. 179-180), and  
Woodcutting Machinery (three year course, Nos. 191-193).



Evening Courses are also provided in the following trades :

- Upholstery (four year course, Nos. 181-184);
- Coach and Motor Body Building (three year course, Nos. 194-196);
- Coach painting (two year course, Nos. 197-198);
- Coach trimming (two year course, Nos. 200-201);
- Ship construction (three year course, Nos. 212-214).
- Woodcarving.

**PART-TIME DAY COURSES.** By agreement with the Dublin Master Builders' Association, the Master Painters' Association, the Trade Unions concerned and the Apprenticeship Committees, apprentices to certain trades are allowed time off to attend these courses of afternoon lectures and practical work. Courses are provided in the following trades :

- Carpentry and Joinery (Nos. 215-216);
- Painting and Decorating (Nos. 220-221);
- Cabinetmaking (Nos. 225-226).

Similar part-time day courses will be inaugurated in other trades in which the requisite conditions can be procured.

**Whole-time Day Apprentice Scholarship Courses** in Brick-laying, Plumbing, Plastering and Painting and Decorating are separately described in another part of this Prospectus (see page 60).

### 3. IRISH LANGUAGE

The attention of all students in the Department of Architecture and Building is earnestly directed to the facilities provided for the study of the Irish Language, which are outlined under the Description of Courses in the Department of Mechanical Engineering.

## COURSES AND TIME TABLES

## 1. ARCHITECTURE, SURVEYING, CIVIL ENGINEERING, HEATING AND VENTILATION, ESTATE AGENCY AND BUILDING SCIENCE

## WHOLE-TIME COURSE IN ARCHITECTURE

No. of Course	SUBJECT	Hours per Week	Teacher	No. of Syllabus
106	FIRST YEAR.			
	Architectural Design—I ... ..	6		
	Building Construction—Elem. ... ..	6		
	History of Architecture—I (Lecture and Studio Work) ...	4½		
	Free Drawing—I ... ..	3	W. Whelan	
	Plane and Solid Geometry—Inter. ... ..	1½		
	Mathematics and Mechanics—Elem. ... ..	3	W. O'Brien	
107	Bricklaying and Masonry (Workshop) ... ..	3	E. Byrne	
	SECOND YEAR.			
	Architectural Design—II ... ..	9		
	Building Construction—Inter. ... ..	6		
	History of Architecture—II ... ..	3		
	Free Drawing and Clay Modelling—II ... ..	3		
	Mechanics and Strength of Materials—Inter. ... ..	3		
108	Physics (Heat and Electricity)—I ... ..	3		
	Chemistry—Elem. ... ..	3		
	Carpentry and Joinery (Workshop) ... ..	3		
	THIRD YEAR.			
	Architectural Design—III. ... ..	10½		
	Building Construction—Inter. ... ..	6		
	Free Drawing—III. ... ..	3		
	Strength of Materials and Theory of Structures—Inter. ...	3		
	History of Architecture—III ... ..	3		
	Physics (Sound and Light) ... ..	3		
	Surveying and Levelling ... ..	1½		
	Plumbing and Plastering (Workshop) ... ..	3		

Note : Classes in Irish (3 hours per week) will be provided in connection with the course and all students are earnestly urged to avail of this opportunity to improve their knowledge of the language.

## PART-TIME COURSE IN ARCHITECTURE

No. of Course	SUBJECT	Day	Hour	Room	Teacher	No. of Syllabus
101	FIRST YEAR.					
	Architectural Design—I ... ..	Tues., Thur.	2.0-5.0	B 12	—	
	History of Architecture—I ... ..	Monday	3.30-5.0	B 13	—	
	History of Architecture—I ... ..	Friday	2.0-5.0	B 15	—	
	Free Drawing—I ... ..	Monday	2.0-3.30	B 24	W. Whelan	
	Building Construction—Elem. ... ..	Tues., Thur.	7.30-9.30	B 17	B. O'Reilly	
	Mathematics—Elem. ... ..	Wednesday	7.30-9.30	B 26	J. Campbell	
	Mechanics—Elem.... ... ..	Monday	7.30-9.30	A 5	E. P. Dunne	



No. of Course	SUBJECT	Day	Hour	Room	TEACHER	No. of Syllabus
SECOND YEAR :						
102	Architectural Design—II ...	Tues., Thur.	2.0-5.0	B 12	—	
	History of Architecture—II ...	—	2.0-5.0	B 13	—	
	History of Architecture—II ...	—	2.0-3.30	B 15	—	
	Free Drawing—II ...	—	3.30-5.0	B 24	W. Whelan	
	Building Construction—Inter. ...	Mon., Tues.	7.30-9.30	B 18	A. E. Williams	
	Mechanics—Inter. ...	Thursday	7.30-9.30	A 5	E. P. Dunne	
	Physics (Heat)—I ...	Friday	7.30-9.30	A 11	J. Nunan	
THIRD YEAR :						
103	Architectural Design <sup>1</sup> —III ...	Fri., Wed.	2.0-5.0	B 12	D. F. O'Dwyer	
	History of Architecture—III ...	Friday	2.0-3.30	B 15	—	
	Free Drawing—III ...	Friday	3.30-5.0	B 24	W. Whelan	
	Building Construction—Inter. ...	Thursday	7.30-9.30	B 12	L. Tierney	
	Building Construction—Inter. ...	Friday	7.30-9.30	B 18	L. Tierney	
	Surveying and Levelling <sup>3</sup> ...	Wednesday	7.30-9.30	C 5	W. O'Brien	
	Strength of Materials and Theory of Structures—Inter.	Tuesday	7.30-9.30	C 5	W. O'Brien	
FOURTH YEAR :						
104	Architectural Design <sup>1</sup> —IV ...	Fri., Wed.	2.0-5.0	B 12	D. F. O'Dwyer	
	Building Construction—Adv. ...	Monday	7.30-9.30	B 26	L. Tierney	
	Building Construction—Adv. ...	Thursday	7.30-9.30	B 12	L. Tierney	
	Structural Engineering—Adv. ...	Friday	7.30-9.30	C 5	W. O'Brien	
FIFTH YEAR :						
105	Architectural Design <sup>1</sup> —V ...	Fri., Wed.	2.0-5.0	B 12	D. F. O'Dwyer	
	Building Construction—Adv. ...	Thursday	7.30-9.30	B 12	L. Tierney	
	Specifications and Materials ...	Wednesday	7.30-9.30	B 1	L. Tierney	
	Sanitation and Drainage <sup>2</sup> ...	Monday	7.30-9.30	B 26	R. Kavanagh	
	Heating, Lighting and Ventilation <sup>2</sup> ...	Monday	7.30-9.30	B 26	N. Mathews	
	Structural Engineering—Adv. ...	Friday	7.30-9.30	C 5	W. O'Brien	

Notes: 1. Evening classes in Design for third, fourth and fifth year students who are unable to attend the afternoon classes will be provided.

2. Sanitation and Drainage from September to December, 1946.  
Heating, Lighting and Ventilation from January to May, 1947.

3. Fieldwork on Saturday afternoons during late Spring and early Summer.

## WHOLE-TIME COURSE IN QUANTITY AND BUILDING SURVEYING

No. of Course	SUBJECT	Hours per Week	Teacher	No. of Syllabus
120	FIRST YEAR :			
	Building Construction—Elem. ... ..	6	W. O'Brien	
	Draughtsmanship ... ..	6		
	Mensuration and Trigonometry, Surveying and Levelling	3		
	Book-keeping and Economics ... ..	6		
	Central and Local Government, Law of Property, Law of Contract and Tort	3		
121	SECOND YEAR :			
	Building Construction—Inter. ... ..	6	W. O'Brien M. J. Burke	
	Surveying and Levelling ... ..	3		
	Quantities—Inter. ... ..	6		
	Drainage of Buildings ... ..	1½	N. Mathews P. F. Leonard W. O'Brien	
	Heating and Ventilation ... ..			
	Building Acts, Building Contracts, Law of Dilapidations			
	Mathematics and Mechanics—Elem. ... ..			

Note: Classes in Irish are provided in connection with this course and all students are earnestly urged to avail of this opportunity to improve their knowledge of the language.

## PART-TIME COURSE IN QUANTITY AND BUILDING SURVEYING

No. of Course	SUBJECT	Day	Hour	Room	TEACHER	No. of Syllabus
124	FIRST YEAR :					
	Book-keeping and Economics ...	Two aftns.	2.0-3.30			
	Book-keeping and Economics ...	One aftn.	2.0-5.0			
	Central and Local Government	Two aftns.	3.30-5.0			
	Law of Property					
	Law of Contract and Tort					
	Building Construction—Elem. ...	Tue., Thur.	7.30-9.30	B 17	B. O'Reilly	
	Draughtsmanship ...	Monday	7.30-9.30	B 17	B. O'Reilly	
125	Mathematics—Elem. ...	Wednesday	7.30-9.30	B 26	J. Campbell	
	SECOND YEAR :					
	Book-keeping and Economics <sup>1</sup> ...	Two aftns.	2.0-3.30			
	Book-keeping and Economics ...	One aftn.	2.0-5.0			
	Central and Local Government <sup>1</sup>	Two aftns.	3.30-5.0			
	Law of Property <sup>1</sup> ...					
	Law of Contract and Tort <sup>1</sup> ...					
	Drainage of Buildings <sup>2</sup> ...	One aftn.	2.0-3.30		N. Mathews	
	Heating and Ventilation ...					
	Building Acts <sup>2</sup>	Two aftns.	3.30-5.0		P. F. Leonard	
	Building Contracts <sup>2</sup>					
	Law of Dilapidations <sup>2</sup>					
	Building Construction—Inter. ...	Mon., Tues.	7.30-9.30	B 18	A. E. Williams	
	Surveying and Levelling <sup>3</sup> ...	Wednesday	7.30-9.30	C 5	W. O'Brien	



No. of Course	SUBJECT	Day	Hour	Room	TEACHER	No. of Syllabus
	THIRD YEAR.					
126	Drainage of Buildings <sup>1</sup> ... ..	One aftn.	2.0-3.30		—	
	Heating and Ventilation <sup>1</sup> ... ..	One aftn.	2.0-3.30		N. Matthews	
	Building Acts <sup>1</sup> ... ..	Two aftns.	3.30-5.0		P. F. Leonard	
	Building Contracts <sup>1</sup> ... ..					
	Law of Dilapidations <sup>1</sup> ... ..					
	Building Construction—Inter. ... ..	Thursday	7.30-9.30	B 12	L. Tierney	
	Building Construction—Inter. ... ..	Friday	7.30-9.30	B 18	L. Tierney	
	Quantities—Inter.... ... ..	Monday	7.30-9.30	A 8	H. Darker	

Notes : 1. September 1946, to March, 1947.

2. March, 1947, to July, 1947.

3. Fieldwork on Saturday afternoons during late Spring and early Summer.

#### EVENING COURSE IN QUANTITY AND BUILDING SURVEYING

	THIRD YEAR :					
127	Building Construction—Inter. ... ..	Thursday	7.30-9.30	B 12	L. Tierney	
	Building Construction—Inter. ... ..	Friday	7.30-9.30	B 18	L. Tierney	
	Quantities—Inter.... ... ..	Monday	7.30-9.30	C 7	H. Darker	
	Steel and Reinforced Concrete (Structural Engineering—Inter.)	Tuesday	7.30-9.30	C 5	W. O'Brien	
	FOURTH YEAR :					
128	Building Construction—Adv. ... ..	Monday	7.30-9.30	B 26	—	
	Building Construction—Adv. ... ..	Thursday	7.30-9.30	B 12	L. Tierney	
	Quantities—Adv. ... ..	Tuesday	7.30-9.30	A 8	H. Darker	
	FIFTH YEAR :					
129	Quantities—Adv. ... ..	Tuesday	7.30-9.30	A 8	H. Darker	
	Specifications and Materials ... ..	Wednesday	7.30-9.30	B 1	—	
	Sanitation and Drainage <sup>1</sup> ... ..	Monday	7.30-9.30	B 26	R. Kavanagh	
	Proofs of Evidence and Reports, Arbitration <sup>2</sup> ... ..					

Notes : 1. Sanitation and Drainage, September to December, 1946.

2. Proofs of Evidence and Reports and Arbitration, January to May, 1947.

## EVENING COURSE IN CIVIL ENGINEERING

No. of Course	SUBJECT	Day	Hour	Room	TEACHER	No. of Syllabus
130	FIRST YEAR:					
	Mathematics—Elem. ... ..	Wednesday	7.30-9.30	B 26	J. Campbell	
	Mechanics—Elem. ... ..	Monday	7.30-9.30	A 5	E. P. Dunne.	
131	SECOND YEAR:					
	Mathematics—Inter. ... ..	Friday	7.30-9.30	C 7	H. C. Clifton	
	Mechanics—Inter. ... ..	Thursday	7.30-9.30	A 5	E. P. Dunne	
	Surveying and Levelling <sup>1</sup> ...	Wednesday	7.30-9.30	C 5	W. O'Brien	
132	THIRD YEAR:					
	Mathematics—Inter. ... ..	Wednesday	7.30-9.30	C 7	H. C. Clifton	
	Strength of Materials and Theory of Structures—Inter.	Tuesday	7.30-9.30	C 5	W. O'Brien	
	Mechanics—Inter. ... ..	Friday	7.30-9.30	A 5	E. P. Dunne	
133	FOURTH YEAR:					
	Strength of Materials and Theory of Structures—Adv.	Friday	7.30-9.30	C 5	W. O'Brien	
	Concrete—Plain and Reinforced	Thursday	7.30-9.30	B 10	H. Clifton	

Note: 1. Fieldwork on Saturday afternoons during late Spring and early Summer.

## EVENING COURSE IN TOWNPLANNING

280	FIRST YEAR:	To be arranged.				
	Townplanning Practice ...		7.30-9.30			
	History of Townplanning ...		7.30-9.30			
	Townplanning in relation to Engineering and Surveying ...		7.30-9.30			
281	SECOND YEAR	To be arranged.				
	Townplanning Practice ...		7.30-9.30			
	Townplanning in relation to Architecture ... ..		7.30-9.30			
	The Law relating to Townplanning		7.30-9.30			



## EVENING COURSE IN VALUATION AND ESTATE AGENCY

No. of Course	SUBJECT	Day	Hour	Room	TEACHER	No. of Syllabus	
140	FIRST YEAR Building Construction—Elem. ... Draughtsmanship ... .. Mathematics—Elem. ... ..	Tues., Thur. Monday Wednesday	7.30-9.30 7.30-9.30 7.30-9.30	B 17 B 12 B 26	B. O'Reilly —— J. Campbell		
141	SECOND YEAR: Building Construction—Inter. ... Surveying and Levelling <sup>2</sup> ...	Mon., Tues. Wednesday	7.30-9.30 7.30-9.30	B 18 C 5	A. E. Williams W. O'Brien		
142	THIRD YEAR: Valuation, Sale and Mortgage of Land ... ..	Thur., Fri.	7.30-9.30		——		
143	FOURTH YEAR <sup>1</sup> : Law of Landlord and Tenant Law of Fixtures ... .. Law of Dilapidations ... Law of Easements ... ..	Two evngs.	7.30-9.30		——		

Notes: 1. No Third or Fourth-Year Course will be provided this Session.

2. Fieldwork on Saturday afternoons during late Spring and early Summer.

## EVENING COURSES IN BUILDING SCIENCE

## Course A

112A	FIRST YEAR: Mathematics—Elem. ... .. Mechanical Drawing—Elem. ...	Tuesday Wednesday	7.30-9.30 7.30-9.30	B 26 B 13	P. J. Lyons. J. C. Slater	
113A	SECOND YEAR: Building Construction—Elem. ... Geometry (Plane and Solid)—Elem.	Tues., Thur. Wednesday	7.30-9.30 7.30-9.30	B 17 B 17	B. O'Reilly —	
114A	THIRD YEAR: Building Construction—Inter. ... Geometry (Plane and Solid)—Inter.	Mon., Tues. Thursday	7.30-9.30 7.30-9.30	B 18 B 24	A. E. Williams A. Hanway	
115A	FOURTH YEAR: Building Construction—Inter. ... Building Construction—Inter. ... Geometry (Plane and Solid)—Inter.	Thursday Friday Monday	7.30-9.30 7.30-9.30 7.30-9.30	B 12 B 18 B 24	L. Tierney L. Tierney A. Hanway	

No. of Course	SUBJECT	Day	Hour	Room	TEACHER	No. of Syllabus
	FIFTH YEAR :					
116A	Building Construction—Adv. ...	Monday	7.30-9.30	B 26	—	
	Building Construction—Adv. ...	Thursday	7.30-9.30	B 12	L. Tierney	
	Geometry (Plane and Solid)—Adv.	Friday	7.30-9.30	B 24	A. Hanway	
	SIXTH YEAR :					
117A	Building Construction—Adv. ...	Thursday	7.30-9.30	B 13	L. Tierney	
	Specifications and Materials ...	Wednesday	7.30-9.30	B 1	—	
	Geometry (Plane and Solid)—Adv.	Friday	7.30-9.30	B 24	A. Hanway	

## Course B

112B	FIRST YEAR :					
	Mathematics—Elem. ...	Tuesday	7.30-9.30	B 26	P. J. Lyons	
	Mechanical Drawing—Elem. ...	Wednesday	7.30-9.30	B 13	J. Slater	
113B	SECOND YEAR :					
	Building Construction—Elem. ...	Tues., Thur.	7.30-9.30	B 17	B. O'Reilly	
	Mathematics—Elem. ...	Wednesday	7.30-9.30	B 26	J. Campbell	
	Mechanics—Elem....	Monday	7.30-9.30	A 5	E. P. Dunne	
114B	THIRD YEAR :					
	Building Construction—Inter. ...	Mon., Tues.	7.30-9.30	B 18	A. E. Williams	
	Mathematics—Inter. ...	Friday	7.30-9.30	C 7	H. C. Clifton	
	Mechanics—Inter. ...	Thursday	7.30-9.30	A 5	E. P. Dunne	
115B	FOURTH YEAR :					
	Building Construction—Inter. ...	Thursday	7.30-9.30	B 12	L. Tierney	
	Building Construction—Inter. ...	Friday	7.30-9.30	B 18	—	
	Structural Engineering—Inter. ...	Tuesday	7.30-9.30	A 5	W. O'Brien	
116B	FIFTH YEAR :					
	Building Construction—Adv. ...	Monday	7.30-9.30	B 26	—	
	Building Construction—Adv. ...	Thursday	7.30-9.30	B 12	L. Tierney	
	Structural Engineering—Adv. ...	Friday	7.30-9.30	C 5	W. O'Brien	
117B	SIXTH YEAR :					
	Building Construction—Adv. ...	Thursday	7.30-9.30	B 12	L. Tierney	
	Specifications and Materials ...	Wednesday	7.30-9.30	B 1	—	
	Structural Engineering—Adv. ...	Friday	7.30-9.30	C 5	W. O'Brien	



## Course C

No. of Course	SUBJECT	Day	Hour	Room	TEACHER	No. of Syllabus
112C	FIRST YEAR: Mathematics—Elem. ... .. Mechanical Drawing—Elem. ... ..	Tuesday Wednesday	7.30-9.30 7.30-9.30	B 26 B 13	P. J. Lyons J. C. Slater	
113C	SECOND YEAR: Building Construction—Elem. ... .. Geometry (Plane and Solid)—Elem. ... ..	Tues., Thur. Wednesday	7.30-9.30 7.30-9.30	B 17 B 17	B. O'Reilly —	
114C	THIRD YEAR: Building Construction—Inter. ... .. Surveying and Levelling <sup>1</sup> ... ..	Mon., Tues. Wednesday	7.30-9.30 7.30-9.30	B 18 C 5	A. E. Williams W. O'Brien	
115C	FOURTH YEAR: Building Construction—Inter. ... .. Building Construction—Inter. ... .. Quantities—Inter.... ... ..	Thursday Friday Monday	7.30-9.30 7.30-9.30 7.30-9.30	B 12 B 18 C 7	L. Tierney L. Tierney H. Darker	
116C	FIFTH YEAR: Building Construction—Adv. ... .. Building Construction—Adv. ... .. Quantities—Adv. ... ..	Monday Thursday Tuesday	7.30-9.30 7.30-9.30 7.30-9.30	B 26 B 12 A 8	L. Tierney L. Tierney H. Darker	
117C	SIXTH YEAR: Building Construction—Adv. ... .. Specifications and Materials ... .. Quantities—Adv. ... ..	Thursday Wednesday Tuesday	7.30-9.30 7.30-9.30 7.30-9.30	B 12 B 1 A 8	L. Tierney — H. Darker	

## EVENING COURSE IN SURVEYING AND LEVELLING

146	FIRST YEAR: Mathematics—Elem. ... .. Draughtsmanship ... ..	Wednesday Monday	7.30-9.30 7.30-9.30	B 26 B 17	J. Campbell B. O'Reilly	
147	SECOND YEAR: Surveying and Levelling <sup>1</sup> ... ..	Wednesday	7.30-9.30	C 5	W. O'Brien	

Note: <sup>1</sup> Fieldwork on Saturday afternoons during late Spring and early Summer.

## 2. COURSES IN THE BUILDING, FURNITURE, COACHBUILDING AND SHIPCONSTRUCTION TRADES

### (Trade Apprentices)

#### EVENING COURSE IN BRICKLAYING AND STONELAYING

No. of Course	SUBJECT	Day	Hour	Room	TEACHER	No. of Syllabus
154	FIRST YEAR.					
	Bricklaying (Practical)—I ..	Tues.	7.30-9.30	C 17	E. Byrne	
	Bricklaying (Drawing and Theory)—I .. ..	Fri.	7.30-9.30	C 20	E. Byrne	
155	SECOND YEAR.					
	Bricklaying (Practical)—II	Thur.	7.30-9.30	C 17	E. Byrne	
	Bricklaying (Drawing and Theory)—II .. ..	Mon.	7.30-9.30	C 20	E. Byrne	
156	THIRD YEAR.					
	Bricklaying (Practical)—III	Thurs.	7.30-9.30	C 17	E. Byrne	
	Bricklaying (Drawing and Theory)—III .. ..	Mon.	7.30-9.30	C 20	E. Byrne	

#### EVENING COURSE IN CARPENTRY AND JOINERY

159	FIRST YEAR.					
	Carpentry and Joinery.					
	Practice—I. .. ..	Tues.	7.30-9.30	C 10	—	
159A	Carpentry and Joinery.					
	Lecture and Drawing—I.	Mon.	7.30-9.30	C 2	T. Bridgeman	
	Geometry (Plane & Solid) Elem	Fri.	7.30-9.30	B 17	—	
159A	Carpentry and Joinery.					
	Practice—I. .. ..	Tues.	7.30-9.30	B 22	—	
	Carpentry and Joinery.					
159A	Lecture and Drawing—I.	Mon.	7.30-9.30	C 2	T. Bridgeman	
	Geometry (Plane & Solid) Elem.	Fri.	7.30-9.30	B 17	—	
160	SECOND YEAR.					
	Carpentry and Joinery.					
	Practice—II. .. ..	Mon.	7.30-9.30	C 10	—	
160 A	Carpentry and Joinery.					
	Lecture and Drawing—II.	Fri.	7.30-9.30	C 2	T. Bridgeman	
	Geometry (Plane & Solid) Inter.	Thurs.	7.30-9.30	B 24	A. Hanway	
160 A	Carpentry and Joinery					
	Practice—II .. ..	Wed.	7.30-9.30	C 10	—	
	Carpentry and Joinery					
160 A	Lecture and Drawing—II	Fri.	7.30-9.30	C 2	T. Bridgeman	
	Geometry (Plane & Solid) Inter	Thurs.	7.30-9.30	B 24	A. Hanway	
161	THIRD YEAR.					
	Carpentry and Joinery.					
	Practice—III. .. ..	Fri.	7.30-9.30	C 10	—	
161	Carpentry and Joinery.					
	Lecture and Drawing—III.	Thurs.	7.30-9.30	C 2	T. Bridgeman	
	Geometry (Plane & Solid) Inter.	Mon.	7.30-9.30	B 24	A. Hanway	



No. of Course	SUBJECT	Day	Hour	Room	TEACHER	No. of Syllabus
162	FOURTH YEAR.					
	Carpentry and Joinery, Practice—IV... ..	Thurs.	7.30-9.30	C 10	—	
	Carpentry and Joinery, Lecture and Drawing—IV.	Tues.	7.30-9.30	C 2	T. Bridgeman	
	Geometry (Plane & Solid) Adv.	Fri.	7.30-9.30	B 24	—	

## EVENING COURSE IN PLUMBING

164	FIRST YEAR.					
	Plumbers' Work, Lecture and Drawing—I. .. ..	Mon.	7.30-9.30	B 1	J. Bolton	
	Plumbers' Work, Pract.—I.	Tues.	7.30-9.30	D 11	D. Rooney	
	Geometry (Plane & Solid) Elem.	Fri.	7.30-9.30	B 17	—	
164A	FIRST YEAR					
	Plumbers Work, Lecture and Drawing—I. .. ..	Mon.	7.30-9.30	B 1	J. Bolton	
	Plumbers' Work, Pract.—I.	Wed.	7.30-9.30	D 11	D. Rooney	
	Geometry (Plane & Solid) Elem.	Fri.	7.30-9.30	B 17	—	
165	SECOND YEAR.					
	Plumbers' Work, Lecture and Drawing—II. .. ..	Thurs.	7.30-9.30	B 1	J. Bolton	
	Plumbers' Work, Pract.—II.	Fri.	7.30-9.30	D 11	D. Rooney	
166	THIRD YEAR					
	Plumbers' Work, Lecture and Drawing—III. .. ..	Fri.	7.30-9.30	B 1	J. Bolton	
	Plumbers' Work, Pract.—III.	Mon.	7.30-9.30	D 11	D. Rooney	
167	FOURTH YEAR.					
	Plumbers' Work, Lecture and Drawing—IV. .. ..	Tues.	7.30-9.30	B 1	J. Bolton	
	Plumbers' Work, Pract.—IV.	Thurs.	7.30-9.30	D 11	D. Rooney	

## EVENING COURSE IN PLASTERING

No. of Course	SUBJECT	Day	Hour	Room	TEACHER	No. of Syllabus
169	FIRST YEAR.					
	Plasterers' Drawing—I.	Wed.	7.30—9.30	B 24	—	
	Plasterers' Work, Practice and Theory—I. .. ..	Mon., Fri.	7.30—9.30	C 16	—	
170	SECOND YEAR.					
	Plasterers' Work, Practice and Theory—II. .. ..	Tu., Thur.	7.30—9.30	C 16	—	
	Do. Drawing—II.	Wed.	7.30—9.30	B 24	—	
171	THIRD YEAR.					
	Plasterers' Work, Practice and Theory—III. .. ..	Tu., Thur.	7.30—9.30	C 16	—	
	Do. Drawing—III.	Wed.	7.30—9.30	B 24	—	
172	FOURTH YEAR.					
	Plasterers' Work, Practice and Theory—IV .. ..	Tu., Thur.	7.30—9.30	C 16	—	
	Modelling for Plasterers—IV.	Wed.	7.30—9.30	C 16	—	

## EVENING COURSE IN PAINTING AND DECORATING

173	FIRST YEAR.					
	Painters' Work, Practice—I. ..	Tues.	7.30—9.30	C 11	C. O'Byrne	
	Drawing and Theory—I. ..	Wed.	7.30—9.30	C 11	C. O'Byrne	
174	SECOND YEAR.					
	Painters' and Decorators' Work—I .. ..	Fri.	7.30—9.30	C 11	C. O'Byrne	
	Drawing and Theory—II ..	Thur.	7.30—9.30	C 11	C. O'Byrne	
175	THIRD YEAR.					
	Painters' and Decorators' Work—III .. ..	Fri.	7.30—9.30	C 11	C. O'Byrne	
176	FOURTH YEAR.					
	Painters' and Decorators' Work—IV .. ..	Fri.	7.30—9.30	C 11	C. O'Byrne	



## EVENING COURSE IN CABINET MAKING

No. of Course	SUBJECT	Day	Hour	Room	TEACHER	No. of Syllabus
179	THIRD YEAR. Cabinet-making Theory and Practice—III	Mon., Wed.	7.30–9.30	C 8	M. Murray	
180	FOURTH YEAR. Cabinet-making Theory and Practice—IV	Tu., Thur.	7.30–9.30	C 8	M. Murray	

## EVENING COURSE IN WOODCARVING

185	Woodcarving .. .. .	Tues., Fri.	7.30–9.30	C 5	J. Levins	
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## EVENING COURSE IN UPHOLSTERY

181	FIRST YEAR. Upholstery, Theory & Practice—I	Mon., Wed.	7.30–9.30	D 1	T. Roche	
182	SECOND YEAR. Upholstery, Theory & Practice—II	Mon., Wed.	7.30–9.30	D 1	T. Roche	
183	THIRD YEAR. Upholstery, Theory & Practice—III	Mon., Wed.	7.30–9.30	D 1	T. Roche	
184	FOURTH YEAR. Upholstery, Theory & Practice—IV	Mon., Wed.	7.30–9.30	D 1	T. Roche	

## EVENING COURSE IN WOODCUTTING MACHINERY

191	FIRST YEAR. Woodcutting Machinery— (Practical)—1. .. .. .	Mon.	7.30–9.30	C 18	C. Kenny.	
	Woodcutting Machinery— (Drawing)—1. .. .. .	Tues.	7.30–9.30	B 10	C. Kenny.	
	Geometry (Plane & Solid) Elem.	Fri.	7.30–9.30	B 17	—	
192	SECOND YEAR. Woodcutting Machinery—II. (Drawing) .. .. .	Wed.	7.30–9.30	B 10	C. Kenny.	
	Woodcutting Machinery—II. (Practical) .. .. .	Thurs.	7.30–9.30	C 18	C. Kenny.	
193	THIRD YEAR. Woodcutting Machinery—III. (Drawing) .. .. .	Wed.	7.30–9.30	B 10	C. Kenny.	
	Woodcutting Machinery—III. (Practical) .. .. .	Fri.	7.30–9.30	C 18	C. Kenny.	

## EVENING COURSE IN COACH AND MOTOR BODY BUILDING

No. of Course	SUBJECT	Day	Hour	Room	TEACHER	No. of Syllabus
194	FIRST YEAR.					
	Coach & Motor Body Building					
	Lecture and Drawing—I.	Thurs.	7.30-9.30	D 17	P. O'Reilly	
	Coach & Motor Body Building					
	Practical—I. . . . .	Wed.	7.30-9.30	D 17	H. Dempsey	
194 A	Geometry (Plane & Solid) Elem.	Fri.	7.30-9.30	B 17	—	
	Coach and Motor Body Bldg.					
	Lecture and Drawing—I.	Wed.	7.30-9.30	B 12	P. O'Reilly	
	Coach and Motor Body Bldg.					
	Practical—I. . . . .	Thurs.	7.30-9.30	D 17	H. Dempsey	
195	Geometry (Plane & Solid) Elem.	Fri.	7.30-9.30	B 17	—	
	SECOND YEAR.					
	Coach & Motor Body Building					
	Lecture and Drawing—II.	Tues.	7.30-9.30	D 17	H. Dempsey	
	Coach & Mo or Body Building					
196	Practical—II. . . . .	Fri.	7.30-9.30	D 17	H. Dempsey	
	Geometry (Plane & Solid) Inter.	Thurs.	7.30-9.30	B 24	—	
	THIRD YEAR.					
	Coach & Motor Body Building					
	Lecture and Drawing—III.	Tues.	7.30-9.30	D 17	H. Dempsey	
196	Coach & Motor Body Building					
	Practical—III. . . . .	Fri.	7.30-9.30	D 17	H. Dempsey	
	Geometry (Plane & Solid) Inter.	Mon.	7.30-9.30	B 24	—	

## EVENING COURSE IN COACH PAINTING AND PAINTSPRAYING

197	FIRST YEAR.					
	Coach Painting—I. (Pract.)	Thurs.	7.30-9.30	C 12	R. McNamara	
	Do. (Drawing & Lettering), I	Tues.	7.30-9.30	C 12	R. McNamara	
198	SECOND YEAR.					
	Coach Painting—II. (Pract.)	Mon.	7.30-9.30	C 12	R. McNamara	
	Do. (Drawing & Lettering), II	Wed.	7.30-9.30	C 12	R. McNamara	

## EVENING COURSE IN COACH TRIMMING

200	FIRST YEAR.					
	Coach Trimming—I . .	Mon., Wed.	7.30-9.30	D 16	G. O'Keeffe	
201	SECOND YEAR.					
	Coach Trimming—II . .	Mon., Wed.	7.30-9.30	D 16	G. O'Keeffe	

## EVENING COURSE IN SHIP CONSTRUCTION

212	FIRST YEAR:					
	Ship Construction—Pract. I	Monday	7.30-9.30	D 17	J. O'Brien	
	Ship Construction—Theory—I	Thursday	7.30-9.30	B 26	J. O'Brien	
	Ship Construction—Drwg. I	Wednesday	7.30-9.30	C 20	W. Kennedy	



No. of Course	Subject	Day	Hour	Room	Teacher	No. of Syllabus
213	SECOND YEAR :					
	Ship Construction—Pract. II ...	Monday	7.30-9.30	D 17	J. O'Brien	
	Ship Construction—Theory II ...	Friday	7.30-9.30	B 26	J. O'Brien	
	Ship Construction—Drwg. II ...	Thursday	7.30-9.30	C 7	W. Kennedy	
214	THIRD YEAR :					
	Ship Construction—Pract. III ...	Monday	7.30-9.30	D 17	J. O'Brien	
	Ship Construction—Theory III ...	Friday	7.30-9.30	B 26	J. O'Brien	
	Ship Construction—Drwg. III ...	Thursday	7.30-9.30	C 7	W. Kennedy	

#### PART-TIME DAY COURSE IN CARPENTRY AND JOINERY

215	JUNIOR STAGE :					
	Carpentry and Joinery—Theory and Practice	Two aftns.	2.15-5.15	C 10	—	
216	SENIOR STAGE :					
	Carpentry and Joinery—Theory and Practice	Two aftns.	2.15-5.15	C 10	—	

#### PART-TIME DAY COURSE IN PAINTING AND DECORATING

220	JUNIOR STAGE :					
	Painting and Decorating—Theory and Practice	Two aftns.	2.0-5.0	C 11	C. O'Byrne	
221	SENIOR STAGE :					
	Painting and Decorating—Theory and Practice	Two aftns	2.0-5.0	C 11	C. O'Byrne	

#### PART-TIME DAY COURSE IN CABINETMAKING

225	FIRST YEAR : Cabinetmaking—Theory and Practice	Monday	2.0-5.30	C 8	M. Murray	
		Tuesday	2.0-5.30	C 8	M. Murray	
		Wednesday	2.0-5.30	C 8	M. Murray	
		Thursday	2.0-5.30	C 8	M. Murray	
226	SECOND YEAR : Cabinetmaking—Theory and Practice	Monday	2.0-5.30	C 8	M. Murray	
		Tuesday	2.0-5.30	C 8	M. Murray	
		Wednesday	2.0-5.30	C 8	M. Murray	
		Thursday	2.0-5.30	C 8	M. Murray	

Timetables of the Whole-time Day Apprentice Scholarship Courses in Bricklaying, Plumbing, Plastering, Painting and Decorating are given in another part of this Prospectus.

# WHOLE-TIME DAY APPRENTICE SCHOLARSHIP COURSES

(Departments of Mechanical Engineering  
and of Architecture and Building)



## TEACHING STAFF

### Mathematics, Science, Drawing and General Subjects

J. J. BURKE

W. BRODERICK, M.SC.

H. C. CLIFTON, B.A.

J. GRIBBEN

W. D. HORGAN, B.A.

L. MACAMHLAIBH, B.A. (HONS.)

M. MOORE

W. J. O'BRIEN, DIP.ING.

S. O'TUAMA, B.SC.

### Trade

Bricklaying—E. BYRNE

Plumbing—J. BOLTON, FULL TECH. C. & G. AND SILVER MEDALLIST

Plastering—J. SAUNDERS, FULL TECH. C. & G., ART MEDALLIST B. OF E.

Painting and Decorating—C. O'BYRNE

Watchmaking—F. O'KELLY

### Religious Instruction

REV. FR. R. C. COFFEY, O.P.

AN T-ATHAIR D. MAC CARTAIGH, M.A.

### Physical Training

M. BUNYAN

## DESCRIPTION OF COURSES

These courses are designed with the object of linking Technical Instruction with Industry from the outset of a boy's industrial career, so as to improve the standard of trade skill of the apprentice, to give him a grounding in the technology that is fundamental to his trade and to raise his standard of general education. The courses are of two years duration, and the instruction covers 30 hours per week for approximately 42 weeks per year.

They are scholarship courses, the numbers enrolled being strictly limited, and selection is by means of qualifying examination and interview. Candidates are between 14 and 16 years of age, and the examination is based on the Sixth Standard of the Primary Schools. The Scholarships provide free training for the period of two years, free use of equipment, books, etc., and a payment of six shillings per week during the first year and eight shillings per week during the second.

The courses are at present operative in the following trades :

Bricklaying (Nos. 251-252);

Plumbing (Nos. 256-257);

Plastering (Nos. 261-262);

Painting and Decorating (Nos. 266-267);

Watchmaking (Nos. 271-272).

The number of Scholarships awarded in each year is limited, and a number of places are reserved for competition amongst candidates nominated by the trades.

The Employers' Organisations (Master Builders', Master Plumbers', Master Painters' and Master Jewellers' Associations) and the Trade Unions are represented on the interviewing Committees.



A high proportion of the available class time is devoted to Trade Practice and Theory, the remaining time being divided between Mathematics, Science, Drawing, Religious Instruction, Irish, English and Physical Training. At the end of their two-year course, students are expected to take the Junior Stage of the appropriate Trade Examination of the Department of Education.

On completion of the course, students are accepted as third-year apprentices to their trade.

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## SUBJECTS OF INSTRUCTION AND APPROXIMATE WEEKLY ALLOCATION OF HOURS

### 1. Bricklaying, Plumbing, Plastering and Painting and Decorating

#### FIRST YEAR

SUBJECTS				HOURS PER WEEK	
Trade, Theory and Practice	...	...	...	15	
Practical Geometry	...	...	...	1½	
Freehand Drawing	...	...	...	1½	
Mathematics	...	...	...	1½	
Science	...	...	...	3	
Irish	...	...	...	3	
English	...	...	...	2½	
Religious Instruction	...	...	...	1	
Physical Training	...	...	...	1	
TOTAL				30	

## SECOND YEAR

## Bricklaying and Plumbing

SUBJECTS	HOURS PER WEEK
Trade, Theory and Practice ...	15
Practical Geometry ...	3
Mathematics ...	2½
Science ...	3
Irish ...	3
English ...	1½
Religious Instruction	1
Physical Training ...	1
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TOTAL ...	30

## Plastering and Painting and Decorating

SUBJECTS	HOURS PER WEEK
Trade, Theory and Practice ...	15
Practical Geometry ...	1½
Freehand Drawing ...	3
Mathematics ...	2½
Science ...	1½
Irish ...	3
English ...	1½
Religious Instruction	1
Physical Training ...	1
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TOTAL ...	30

## 2. Watchmaking

## FIRST YEAR

SUBJECTS	HOURS PER WEEK
Trade ...	22½
Mathematics ...	1½
Science ...	1½
Irish ...	1½
English ...	1
Religious Instruction	1
Physical Training ...	1
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TOTAL ...	30

NOTE.—There will be no second-year course in Watchmaking during the session 1946-47.



DEPARTMENT OF  
PRINTING  
and  
BOOK PRODUCTION

*Teacher-in-Charge:*

WILLIAM J. FITZPATRICK, Full Tech. Cert., C. and G.

## TEACHING STAFF

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**Compositors' Work:**

W. J. FITZPATRICK

P. MAHER

C. J. McCULLAGH

**Letterpress Machine:**

W. R. QUINN

C. TIMMINS

J. WHELAN

**Design and Layout:****Lithography:**

K. WALKER

R. PRINGLE

**Art for Lithographers:**

G. MULVANY

**Photo-Lithography:**

R. PRINGLE

**Linotype and Intertype  
Operating:**

J. F. KEARNS

**Stationery, L.P. Binding and  
Gilding:**

J. KINSELLA

**Monotype Casting:**

P. McMANUS

**Costing and Estimating:**

W. J. KIERNAN

**Monotype Operating:**

J. L. SULLIVAN



## DESCRIPTION OF COURSES

The courses are designed for apprentices engaged in the Printing and Book Production Trades. Where possible, separate classes for journeymen will be arranged in Trade subjects. The courses in Compositors' Work, Letterpress Machine Work and Irish follow the syllabuses of the Trade Certificate Examinations of the Department of Education, and students are encouraged to present themselves for these examinations, which are conducted in the School at the close of the evening session.

### PART-TIME DAY APPRENTICE COURSE

In co-operation with the Dublin Master Printers' Association, Dublin Newspaper Managers' Committee and the Dublin Typographical Provident Society, the Vocational Education Committee have arranged for the technical instruction of all First and Second Year Apprentices in Compositors' Work and in Letterpress Printing to be carried out in Daytime Classes.

The Syllabus of Instruction covers the Junior Stage of the Trade Certificate Examinations of the Department of Education. (See Official Syllabus). All Day Apprentices at the end of their second year sit for this Examination.

On completion of the Day Course, Apprentices continue their instruction in the Evening Classes in preparation for the Department of Education Senior Stage Examination.

Educational visits to supplement the general training are made to paper mills, newspaper offices, ink factories, etc.

### EVENING COURSES

The Evening Courses in Compositors' Work and in Letterpress Machine Work commence at the third year, as apprentices taking the Evening Course will have already completed two years in the Part-time Day Apprentice Course. The following Evening Courses are provided :

**A.—TYPOGRAPHY**

Compositors' Work	Monotype Keyboard and Caster
Linotype and Intertype	Letterpress Machine Work

**B.—BOOKBINDING**

Stationery and Letterpress Binding	Gilding
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**C.—LITHOGRAPHY**

Transfer and Press Work	Offset Machining
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**D.—PHOTO-LITHOGRAPHY**

Camera Operating	Printing-down
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**E.—OFFICE WORK**

Junior Clerical and Ware- house Work	Costing and Estimating
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**F.—ART AND DESIGN**

Modern Bookwork and Display, Illustration, etc.	Art for Lithographers
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**G.—IRISH**

All students are strongly recommended to avail of the Special Courses in Irish arranged for Printers, and for which no extra fee is charged.

**H.—TECHNOLOGICAL COURSE**

This Course is open to a limited number of senior students, who have passed the Department of Education Examinations (Senior Stage), and affords facilities for a study of the other branches of the industry as taught in the School.



## Evening Courses.

## COMPOSITORS' WORK

No. of Course	SUBJECT	Day	Hour	Room	TEACHER
305	THIRD YEAR.				
	Book and Magazine Work	Monday ..	7.30-9.30	A 1	C. McCullagh
	Design (Bookwork) .. ..	Thursday ..	7.30-9.30	A 1	—
306	FOURTH YEAR.				
	Advanced Display .. ..	Tuesday ..	7.30-9.30	A 1	W. Fitzpatrick
	Design and Layout .. .. (Display Work)	Friday ..	7.30-9.30	A 1	—

In Fifth Year, Linotype and Intertype, or Monotype Work, may be taken, with the permission of the Teacher-in-Charge, instead of, or in addition to, Compositors' Work, provided the student has obtained the Senior Certificate of the Department of Education for Compositors' Work, or its equivalent, and has an attendance of 75% at the evening classes for Third and Fourth Year Courses. *Early application is essential.*

## LINOTYPE AND INTERTYPE OPERATORS' COURSE

310	FIRST YEAR (Third Term).				
	Intensive Course.				
	Practical Operating .. ..	Tu., Th., Fri.	7.30-9.30	A 2	J. F. Kearns
	Lecture and Demonstration ..	Wednesday	7.30-9.30	A 2	J. F. Kearns
311	SECOND YEAR (Second Term).				
	Intensive Course.				
	Practical Operating .. ..	Tu. Th., Fri.	7.30-9.30	A 2	J. F. Kearns
	Lecture and Demonstration ..	Wednesday	7.30-9.30	A 2	J. F. Kearns
312	THIRD YEAR (First Term).				
	Intensive Practical Course ..	Tu., Th., Fri.	7.30-9.30	A 2	J. F. Kearns
	Lecture and Demonstration—III. ..	Wednesday	7.30-9.30	A 2	J. F. Kearns

## MONOTYPE KEYBOARD

315	FIRST YEAR.				
	Keyboard Operating .. ..	Thurs., Fri.	7.30-9.30	A 2	J. Sullivan.
	Keyboard Mechanism .. ..	Mon., Tues.	7.30-9.30	A 2	J. Sullivan.
316	SECOND YEAR.				
	Keyboard Operating .. ..	Thurs., Fri.	7.30-9.30	A 2	J. Sullivan.
	Keyboard Mechanism .. ..	Mon., Tues.	7.30-9.30	A 2	J. Sullivan.
317	THIRD YEAR.				
	Keyboard Operating .. ..	Thurs., Fri.	7.30-9.30	A 2	J. Sullivan
	Keyboard Mechanism .. ..	Mon., Tues.	7.30-9.30	A 2	J. Sullivan

## MONOTYPE CASTER

No. of Course	SUBJECT	Day	Hour	Room	TEACHER
318	Practical Operating .. ..	Mon., Tues.	7.30-9.30	A 2	P. McManus.
	Caster Mechanism .. ..	Thurs., Fri.	7.30-9.30	A 2	P. McManus.

## LETTERPRESS MACHINE WORK

THIRD YEAR.					
323	Lecture .. ..	Tuesday ..	7.30-9.30	A 3	J. Whelan.
	Practical .. ..	Thursday ..	7.30-9.30	A 3	C. Timmins
FOURTH YEAR					
324	Lecture .. ..	Wednesday	7.30-9.30	A 3	J. Whelan
	Practical .. ..	Friday ..	7.30-9.30	A 3	C. Timmins

## LITHOGRAPHY

325	JUNIOR				
	Transfer and Presswork .. ..	Mon., Thur.	7.30-9.30	A 4	K. Walker
SENIOR					
326	Offset Machining .. ..	Tuesday ..	7.30-9.30	A 4	R. Pringle
	Printing-down .. ..	Wednesday	7.30-9.30	A 4	R. Pringle

## ART FOR LITHOGRAPHERS

327	Drawing for Stone and Plate	Monday ...	7.30-9.30	A 4	G. Mulvany
	Design for Lithography ...	Wednesday	7.30-9.30	A 1	G. Mulvany

## PHOTO-LITHOGRAPHY

327	Camera Operating ... ..	Tuesday ...	7.30-9.30	A 12	—
	Printing-down ... ..	Wednesday	7.30-9.30	A 12	R. Pringle



## BOOKBINDING

No. of Course	Subject	Day	Hour	Room	Teacher
326	Stationery and L.P. Binding ..	Mon., Thur.	7.30-9.30	A 9	—
	Gilding .. .. .	Mon., Thur.	7.30-9.30	A 9	J. Kinsella

## OFFICE WORK AND COSTING

334	Office Work, Junior Clerks, etc.	Monday ..	7.30-9.30	—	W. J. Kiernan
	Costing and Estimating .. ..	Tuesday ..	7.30-9.30	—	W. J. Kiernan

## IRISH

337	Third Year .. .. .	Friday ..	7.30-9.30	—	M. O'Maolain
	Fourth Year .. .. .	Monday ..	7.30-9.30	—	M. O'Maolain

# Day Junior Technical Course for Boys



## TEACHING STAFF

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*Teacher-in-Charge* : L. MAC AMHLAOIBH, B.A. (HONS.)

### 1. Mathematics, Science and Drawing:      5. Manual Instruction (Metalwork):

J. BURKE

W. BRODERICK, M.SC.,  
H.DIP.ED.

H. C. CLIFTON, B.A.

H. FITZGERALD

W. HORGAN, B.A.

S. H. KNIGHT, B.A.

J. NUNAN, B.SC., H.DIP.ED.

S. O'TUAMA, B.SC.

S. EGAN

H. C. FITZGERALD

J. GRIBBEN

### 6. Engineering Workshop Practice and Motor Car Engineering:

R. BENT

W. D. PILE, A.M.I.M.E.,  
M.I.A.E.

### 2. Irish:

L. MACAMHLAOIBH, B.A.  
(HONS.)

M. Ó. MAINNÍN

### 3. English:

M. MOORE

### 4. Manual Instruction (Woodwork):

J. CUNNINGHAM

R. GRIMES, A.B.I.C.C.

M. MURRAY

### 7. Religious Instruction:

REV. FR. R. C. COFFEY, O.P.

REV. FR. R. DEMPSEY, S.J.

REV. FR. A. MURPHY, O.P.

AN T-ATHAIR D. MAC  
CARTHAIGH, M.A.

### 8. Physical Training:

M. DOOGAN

# *Junior Technical Course for Boys*

## DESCRIPTION OF COURSE

The Course is specially designed as a pre-employment training for boys between the ages of  $13\frac{1}{2}$  and  $16\frac{1}{2}$  years, preparatory to entering into trade or industrial occupations. A sound training in ~~the~~ *metalwork and by Woodwork* Engineering and Woodwork Workshops is combined with the necessary instruction in Practical Drawing, Calculations and Workshop Science, and the usual general educational subjects are continued throughout the Course. The ~~classes are~~ *instruction is* so arranged as to afford the opportunity of gauging the boys' aptitude for, and inclination towards, particular types of occupation. Religious Instruction is given by the local Clergy; while Physical Training and Organised Games are also provided.

The importance of stressing the need for attendance at this Course of boys who intend to follow trade rather than clerical occupations cannot be too highly emphasised. Very many employers and firms make it a necessary condition for entry into employment and no other boys are accepted. During recent years this practice is becoming more and more common, and the boy who has not had this preliminary training is severely handicapped. The School is continually being approached by employers for boys, and for years past there has been no difficulty in finding suitable employment for the pupils.

The School year extends from September to the end of June.

A number of SCHOLARSHIPS are awarded on the results of special examinations which are held annually early in June at the Technical School, Bolton Street, Dublin.



## SUBJECTS OF INSTRUCTION AND APPROXIMATE WEEKLY ALLOCATION OF HOURS

### Preparatory Course

(ONE YEAR)

SUBJECTS				HOURS PER WEEK
Mathematics ... ..	...	...	...	6
English and Geography ... ..	...	...	...	6
Irish ... ..	...	...	...	3
Freehand Drawing ... ..	...	...	...	1½
Practical Geometry ... ..	...	...	...	1½
Woodwork ... ..	...	...	...	7
Physical Training ... ..	...	...	...	1
Religious Instruction ... ..	...	...	...	1

### Intermediate Course

(TWO YEARS)

#### FIRST YEAR

#### SECOND YEAR

SUBJECTS	HOURS		SUBJECTS	HOURS	
		PER WEEK			PER WEEK
Mathematics ... ..	...	3	Mathematics ... ..	...	3
Science ... ..	...	3	Mechanics ... ..	...	1½
Practical Geometry ... ..	...	1½	Heat ... ..	...	1½
Freehand Drawing ... ..	...	1½	Chemistry ... ..	...	1½
Electricity ... ..	...	1½	Electricity ... ..	...	1½
English & Geography ... ..	...	2½	English & Geography ... ..	...	2½
Irish ... ..	...	3	Irish ... ..	...	3
Woodwork ... ..	...	4½	Machine Drawing ... ..	...	1½
Metalwork ... ..	...	4½	Woodwork ... ..	...	4½
Physical Training ... ..	...	1	Metalwork ... ..	...	4½
Religious Instruction ... ..	...	1	Physical Training ... ..	...	1
			Religious Instruction ... ..	...	1

Only those boys who give evidence of having reached a satisfactory standard of general education will be admitted to the Intermediate Course. This will be determined by means of a written examination.

All other boys between the ages of 14 and 16 years whose standard of education is not sufficiently good for enrolment in the Intermediate Course will be admitted to the Preparatory Course.

The Preparatory Course is conducted at the Capel Street Branch School.

The Fee for the above Courses is £1 per session (September to June).

A special examination is held annually for boys attending at this Course. The examination is conducted by the Department of Education (Technical Instruction Branch), and recognised State Certificates are awarded to successful candidates.

Entrance for the examination is not compulsory, but students are strongly advised to concentrate on obtaining evidence of the attainment of a definite educational standard such as is shown by the possession of this Certificate.

A fee of 2s. 6d. is charged for entrance to the examination.









# GENERAL CURRICULUM OF THE SCHOOLS

## UNDER THE CONTROL OF

### THE CITY OF DUBLIN VOCATIONAL EDUCATION COMMITTEE

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#### BOLTON STREET TECHNICAL SCHOOL.

Mechanical Engineering.	Quantity and Building Surveying.
Motor Car Engineering.	Heating and Ventilating
Marine Engineering.	Engineering.
Mechanical Engineering Trades.	Valuation and Estate Agency.
Motor Car Engineering Trade.	Building Science.
Smithwork and Art Ironwork.	Surveying and Levelling.
Brassfinishing.	Building Trades.
Gasfitting.	Furniture Trades.
Watchmaking.	Coachbuilding, Coachtrimming and
Printing and Book Production.	Coachpainting.
Architecture.	Shipconstruction.
Civil Engineering.	

Day Junior Technical Courses.

#### CAPEL STREET BRANCH SCHOOL.

Continuation Courses.	Trade Classes:—
Manual Instruction.	Tailoring.
Post Office Messengers.	Bootmaking.
Day Junior Technical Courses.	Hairdressing.

#### CABRA TECHNICAL INSTITUTE.

General Commercial Subjects.	Metalwork.
Languages.	Woodwork.
Domestic Science and Housecraft.	Physical Training.

Day Junior Technical School (Boys and Girls).

Day School of Commerce.

#### INSTITUTE OF SCIENCE AND TECHNOLOGY, KEVIN STREET.

Pure and Applied Mathematics.	Ophthalmic Optics.
Pure and Applied Physics.	Electrical Engineering and Allied
Pure and Applied Chemistry.	Trades.
Physical Chemistry.	P.O. Engineering Technology.
Bio-Chemistry: Botany.	Instrument Making.
Bacteriology: Biology.	Radio Engineering.
Pharmacy.	Radio-Telegraphy.
Industrial Technology: Manu-	Air Navigation.
factures.	Art and Art Crafts.
Illuminating Engineering.	Bakery Science and Practice.
	Bootmaking.

DAY AND EVENING COURSES.

#### PARNELL SQUARE TECHNICAL INSTITUTE.

General Commercial Subjects.	Transport.
Accountancy and Allied Subjects.	Day Trade Classes:—
Languages.	Shirtmaking (Power).
Retail Distribution.	Clothing Manufacture (Power).
Physical Training.	

Day School of Commerce.

# GENERAL CURRICULUM OF THE SCHOOLS

## UNDER THE CONTROL OF

### THE CITY OF DUBLIN VOCATIONAL EDUCATION COMMITTEE

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#### PEMBROKE TECHNICAL INSTITUTE (Ringsend and Ballsbridge).

General Commercial Subjects.	Mechanical Engineering.
Retail Distribution.	Motor Car Engineering.
Languages.	Oxy-Acetylene and Electric
Domestic Science and Housecraft.	Welding.
Art and Art Crafts.	Woodworking Trades.

Day School of Commerce.  
 Day Junior Technical School (Boys).  
 Day Technical Course (Girls).  
 Special Apprentice Training Centres.

#### RATHMINES TECHNICAL INSTITUTE.

General Commercial Subjects.	Banking Finance and Foreign
Accountancy, Auditing and Allied	Exchange.
Subjects.	Company Secretaries.
Insurance.	Government Accountancy and
Advertising and Publicity.	Finance.
Physical Training.	Languages.
Domestic Science and Housecraft.	

Day School of Commerce.  
 Day Technical Course (Girls).

#### MARINO TECHNICAL INSTITUTE.

General Commercial Subjects.	Metalwork.
Languages.	Woodwork.
Domestic Science and Housecraft.	Physical Training.

Day Junior Technical School (Boys and Girls).  
 Day School of Commerce.

#### CHATHAM ROW SCHOOL OF MUSIC (Day and Evening Classes).

Pianoforte.	Wind Instruments (Wood and
Violoncello.	Brass).
Uilleann and Irish War Pipes.	Fifes.
Chamber Music.	Viola.
Violin.	Orchestra.
Singing and Choir.	Drums and Flute.
Irish Solo Singing.	Traditional Music.
	Professional Ensembles.

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Offices—TECHNICAL INSTITUTE, BOLTON STREET, DUBLIN.

MARTIN M. GLEESON, M.A., B.Comm.,  
 Chief Executive Officer.



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City of Dublin  
Vocational Education Committee  
SCOILEANNA CEÁRD-OIDEACÁIS  
City of Dublin Technical Schools

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1946-47



Session  
1946-47

TECHNICAL INSTITUTE  
CAPEL STREET

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BRANCH OF BOLTON ST. INSTITUTE

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PROSPECTUS

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